


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>		
APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 921-35C4CS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 01194 ST		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1686 FNL 1699 FWL	SEnw	35	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	1187 FNL 2148 FWL	NENw	35	9.0 S	21.0 E	S
At Total Depth	1187 FNL 2148 FWL	NENw	35	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1187		23. NUMBER OF ACRES IN DRILLING UNIT 1083		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 641		26. PROPOSED DEPTH MD: 9861 TVD: 9780		
27. ELEVATION - GROUND LEVEL 5107		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156		
SIGNATURE		DATE 11/18/2010		EMAIL gnbregulatory@anadarko.com		
API NUMBER ASSIGNED 43047513510000		APPROVAL  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9861		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9731	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2450		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2450	28.0			

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-35C4CS**

Surface:	1686 FNL / 1699 FWL	SENW
BHL:	1187 FNL / 2148 FWL	NENW

Section 35 T9S R21E

Unitah County, Utah
Mineral Lease: ST UT UO 01194 ST**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1526	
Birds Nest	1822	Water
Mahogany	2201	Water
Wasatch	4801	Gas
Mesaverde	7509	Gas
MVU2	8433	Gas
MVL1	9001	Gas
TVD	9780	
TD	9861	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 9,780' TVD, approximately equals 5,992 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,840 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie

line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations. 4 of 16

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

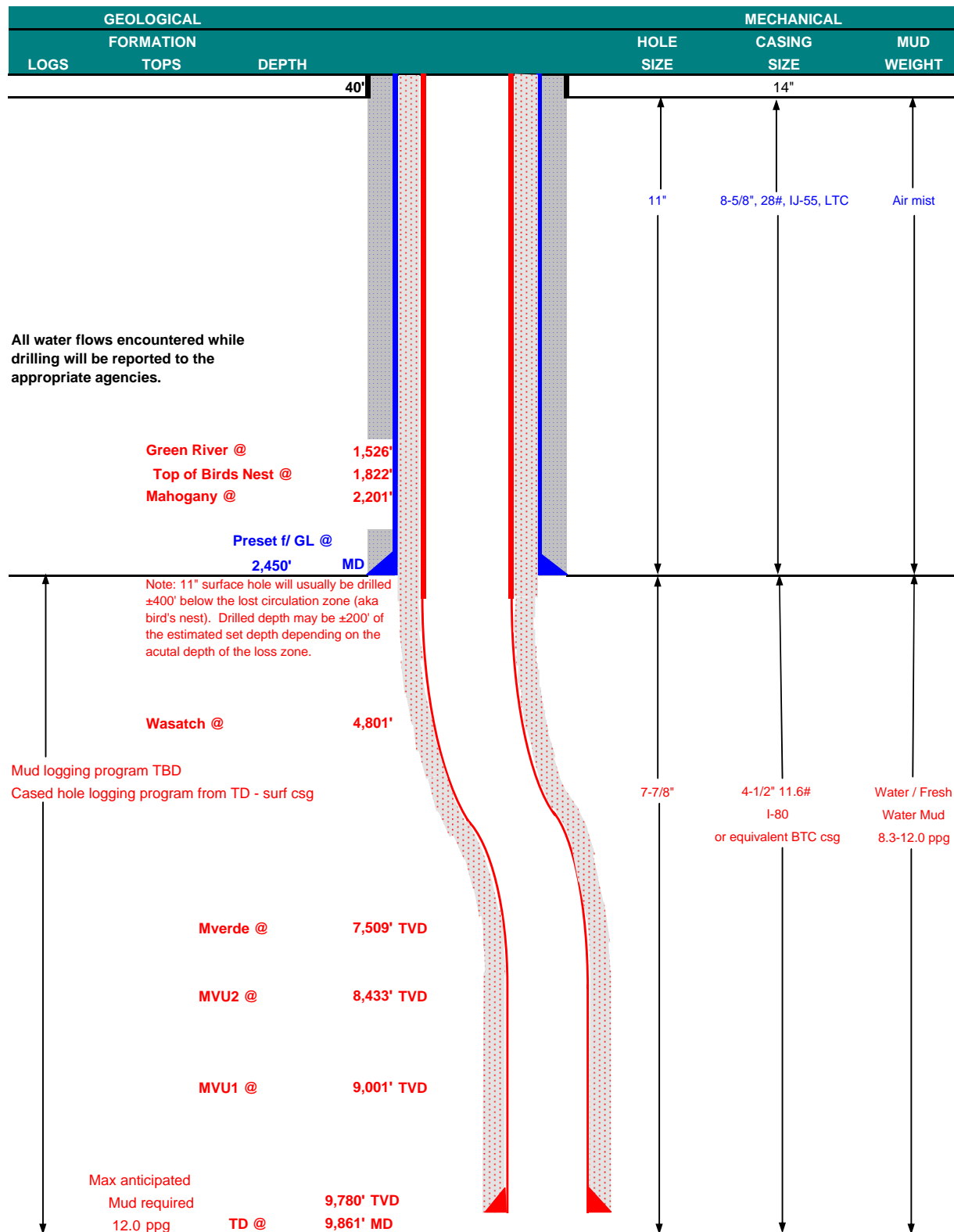
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	November 17, 2010		
WELL NAME	NBU 921-35C4CS					TD	9,780'	TVD	9,861' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		5,105'
SURFACE LOCATION	SENW	1686 FNL	1699 FWL	Sec 35	T 9S	R 21E			
	Latitude: 39.995182		Longitude: -109.52158		NAD 27				
BTM HOLE LOCATION	NENW	1187 FNL	2148 FWL	Sec 35	T 9S	R 21E			
	Latitude: 39.996548		Longitude: -109.51999		NAD 27				
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,450	28.00	IJ-55	LTC	0.85	1.64	5.02
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,731	11.60	I-80	BTC	2.00	1.05	2.78
						10690	7580	367000
	4-1/2"	9,731 to 9,861	11.60	HCP-110	BTC	2.71	1.24	3.68

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.20

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,840 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.0 ppg)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,992 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	1,950'	65/35 Poz + 6% Gel + 10 pps gilsonite	180	35%	11.00	3.82
Option 2			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,301'	Premium Lite II +0.25 pps	310	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,560'	50/50 Poz/G + 10% salt + 2% gel	1,070	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

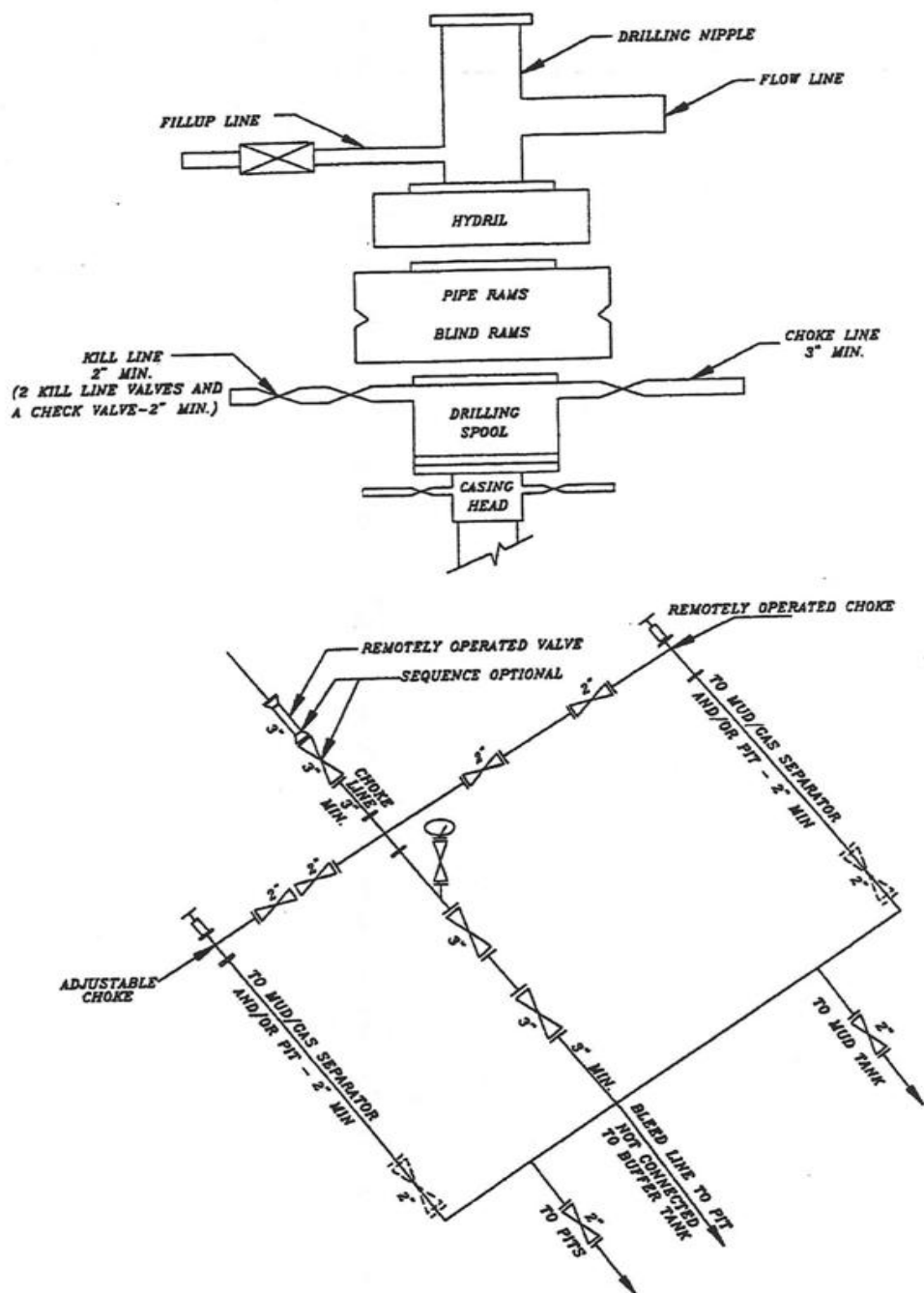
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

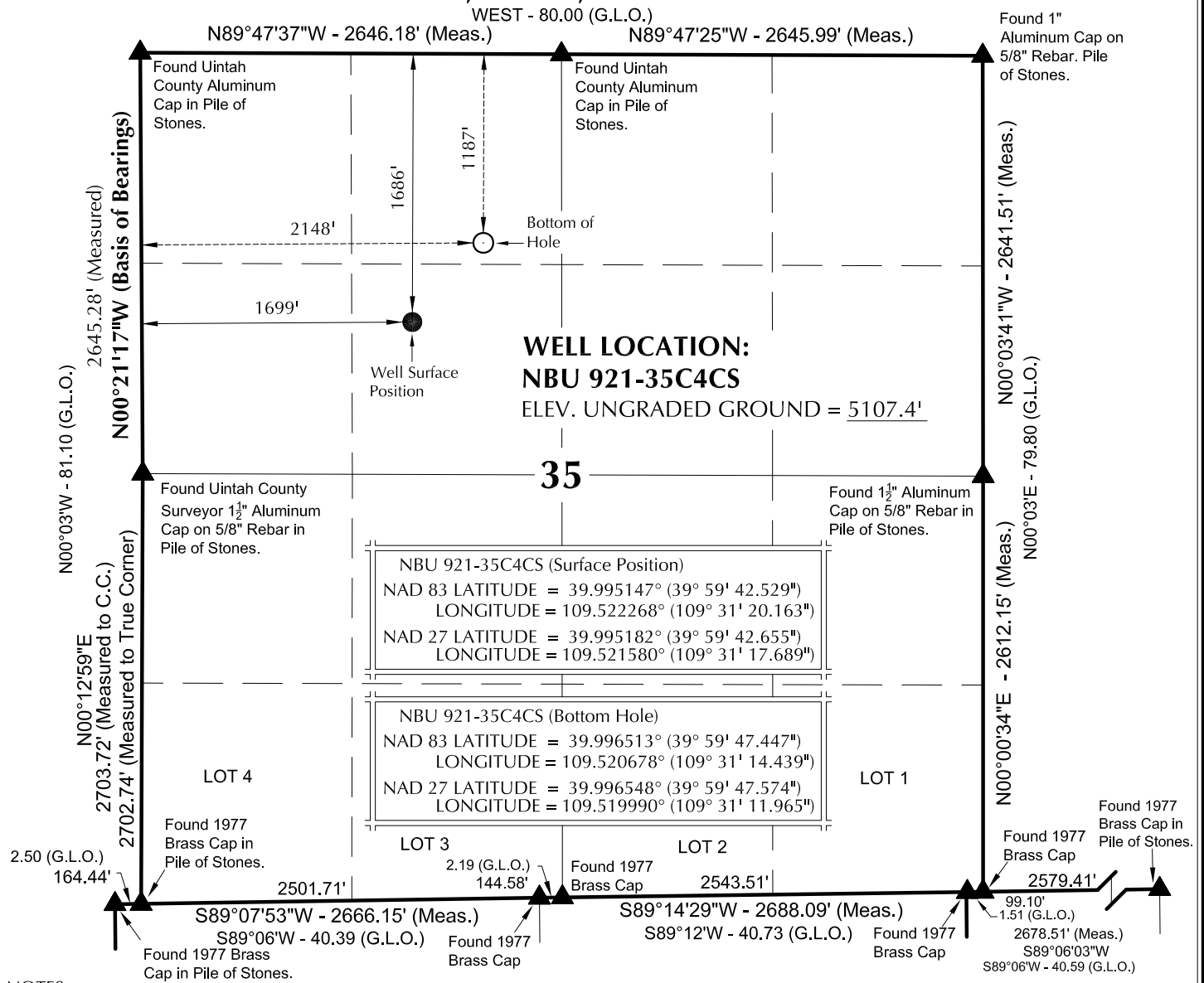
DATE:

EXHIBIT A
NBU 921-35C4CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
1. Well footages are measured at right angles to the Section Lines.
 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
 3. The Bottom of hole bears N41°52'04"E 668.13' from the Surface Position.
 4. Bearings are based on Global Positioning Satellite observations.
 5. Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-35F2

NBU 921-35C4CS
WELL PLAT


1187' FNL, 2148' FWL (Bottom Hole)
NE $\frac{1}{4}$ NW $\frac{1}{4}$ OF SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.


 PROFESSIONAL LAND SURVEYOR
 REGISTRATION NO. 6028691
 STATE OF UTAH

TIMBERLINE

(435) 789-1365

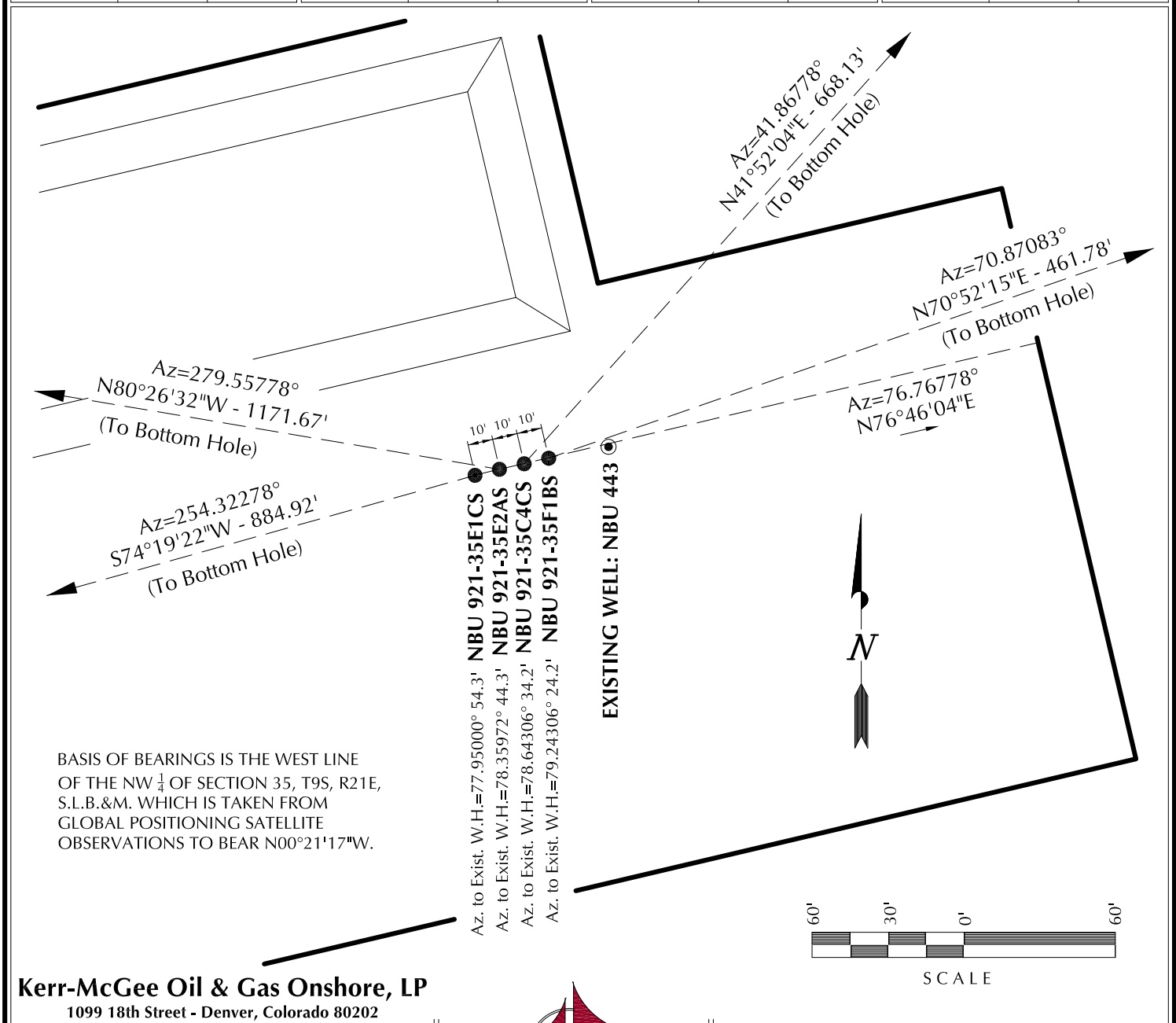
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 10-01-10	SURVEYED BY: D.J.S.	SHEET NO: 2 2 OF 16
DATE DRAWN: 10-01-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised:	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-35F1BS	39°59'42.551"	109°31'20.038"	39°59'42.677"	109°31'17.564"	1684' FNL	39°59'44.049"	109°31'14.435"	39°59'44.175"	109°31'11.961"	1531' FNL
	39.995153°	109.522233°	39.995188°	109.521545°	1709' FWL	39.995569°	109.520676°	39.995604°	109.519989°	2146' FWL
NBU 921-35C4CS	39°59'42.529"	109°31'20.163"	39°59'42.655"	109°31'17.689"	1686' FNL	39°59'47.447"	109°31'14.439"	39°59'47.574"	109°31'11.965"	1187' FNL
	39.995147°	109.522268°	39.995182°	109.521580°	1699' FWL	39.996513°	109.520678°	39.996548°	109.519990°	2148' FWL
NBU 921-35E2AS	39°59'42.507"	109°31'20.289"	39°59'42.633"	109°31'17.815"	1688' FNL	39°59'44.421"	109°31'35.133"	39°59'44.548"	109°31'32.658"	1498' FNL
	39.995141°	109.522303°	39.995176°	109.521615°	1689' FWL	39.995673°	109.526426°	39.995708°	109.525738°	535' FWL
NBU 921-35E1CS	39°59'42.483"	109°31'20.414"	39°59'42.610"	109°31'17.940"	1691' FNL	39°59'40.115"	109°31'31.356"	39°59'40.241"	109°31'28.882"	1933' FNL
	39.995134°	109.522337°	39.995169°	109.521650°	1679' FWL	39.994476°	109.525377°	39.994511°	109.524689°	826' FWL
NBU 443	39°59'42.596"	109°31'19.732"	39°59'42.722"	109°31'17.258"	1679' FNL					
	39.995165°	109.522148°	39.995200°	109.521461°	1733' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-35F1BS	151.3'	436.3'	NBU 921-35C4CS	497.5'	445.9'	NBU 921-35E2AS	194.5'	-1155.4'	NBU 921-35E1CS	-239.1'	-852.0'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35F2

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



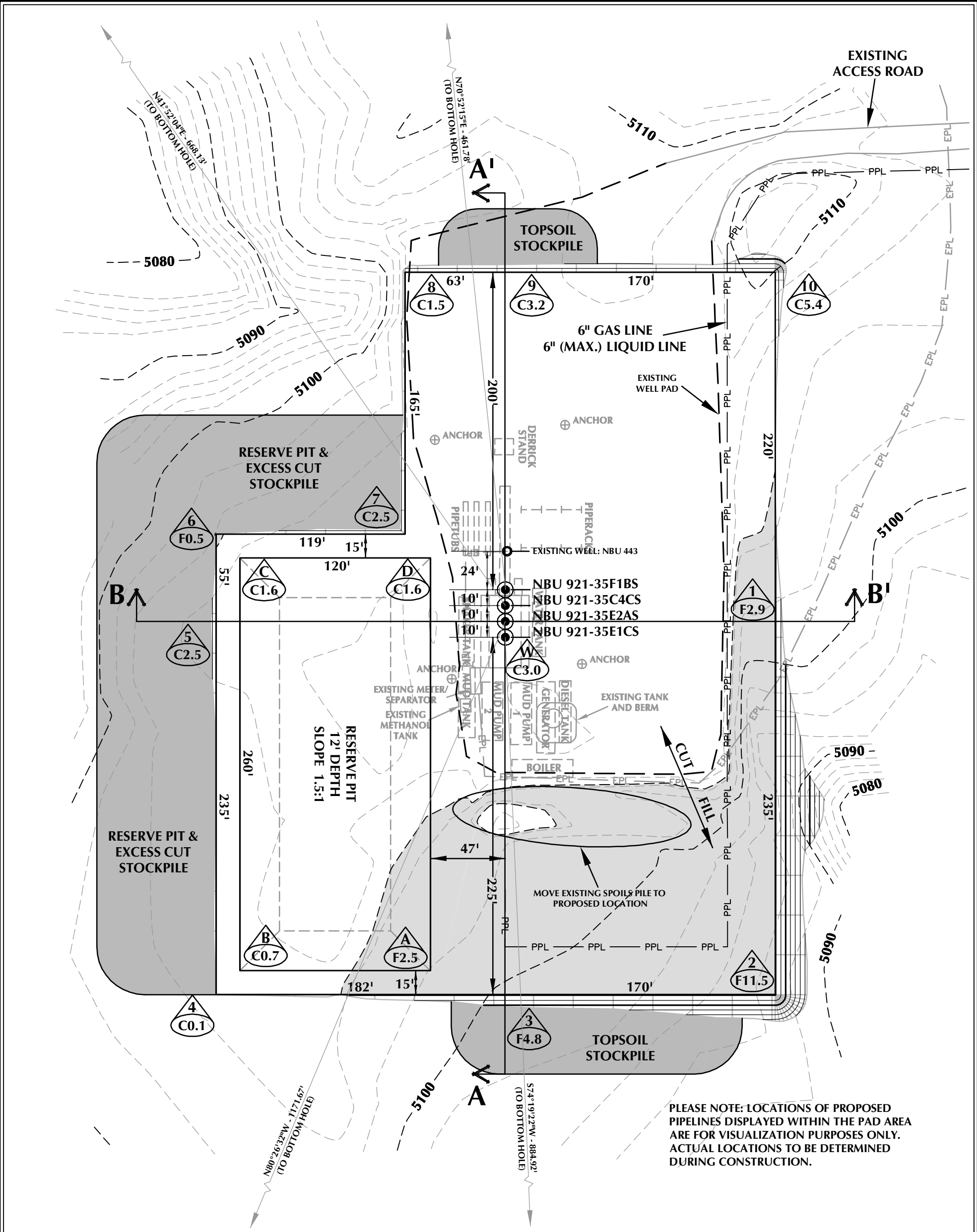
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DATE DRAWN: 10-01-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised:	



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 921-35F2 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5107.5'
FINISHED GRADE ELEVATION = 5104.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.44 ACRES
TOTAL DAMAGE AREA = 6.28 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35F2

WELL PAD - LOCATION LAYOUT
NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

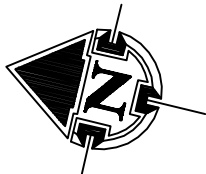
TOTAL CUT FOR WELL PAD = 9,194 C.Y.
TOTAL FILL FOR WELL PAD = 7,785 C.Y.
TOPSOIL @ 6" DEPTH = 1,716 C.Y.
EXCESS MATERIAL = 1,409 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

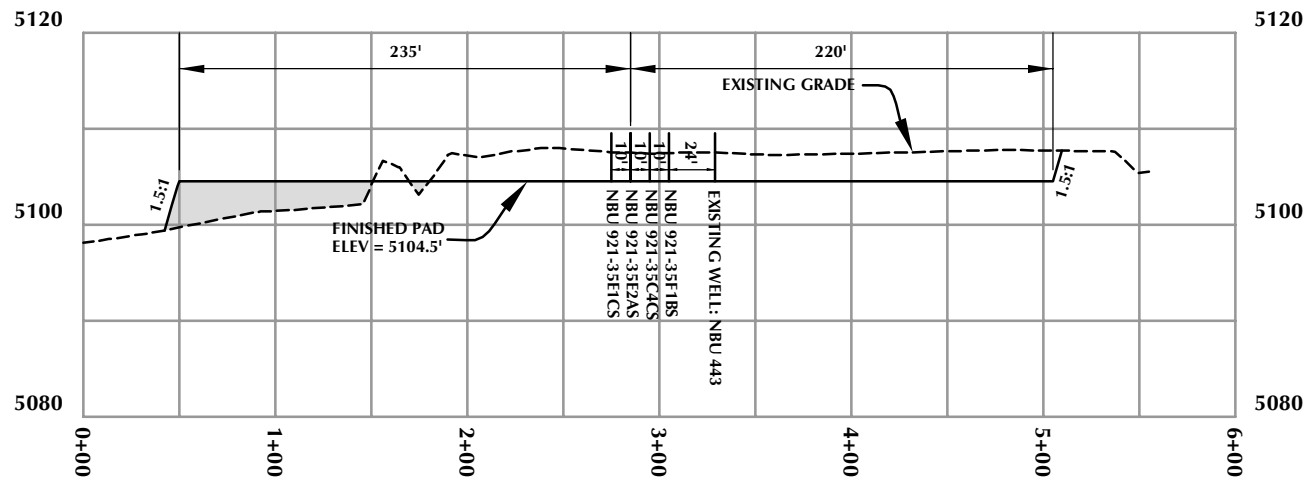
WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

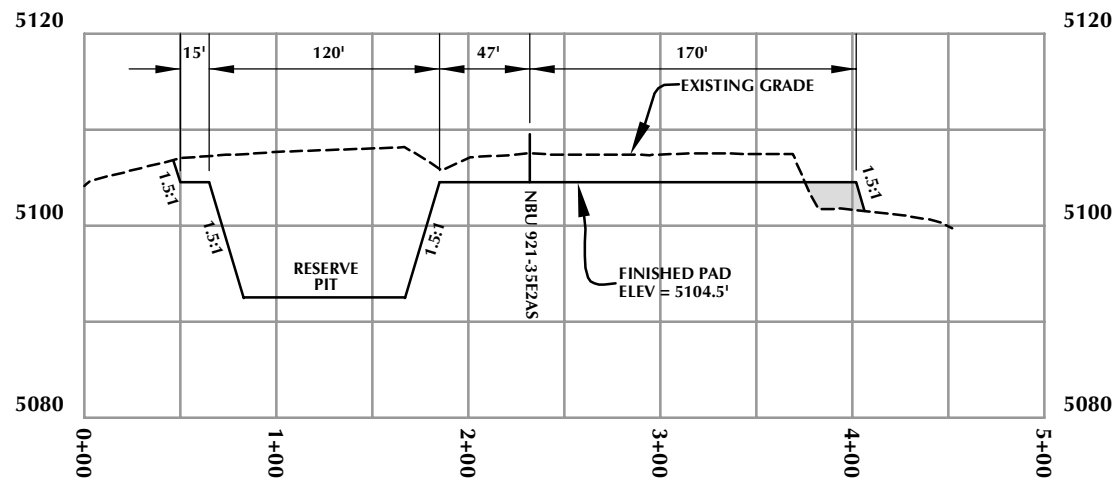


HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Scale: 1"=60' Date: 10/19/10 SHEET NO:
REVISED: JFE 12/9/10 6



CROSS SECTION A-A'



CROSS SECTION B-B'

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WELL PAD - NBU 921-35F2

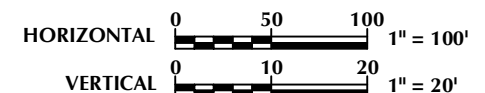
WELL PAD - CROSS SECTIONS
NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



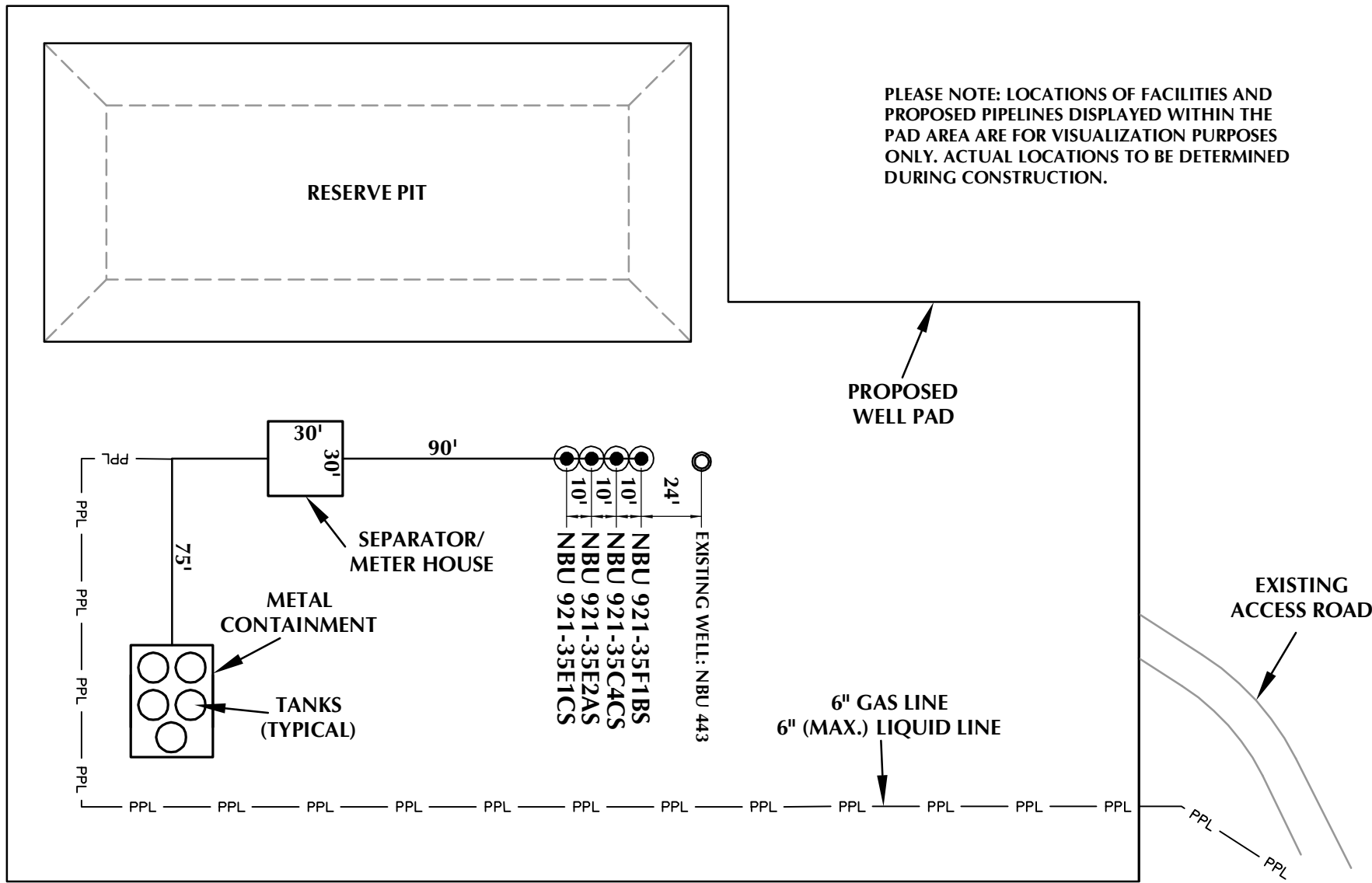
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'	Date: 10/15/10	SHEET NO:
REVISED:		7 7 OF 16



Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35F2

WELL PAD - FACILITIES DIAGRAM
 NBU 921-35F1BS, NBU 921-35C4CS,
 NBU 921-35E2AS & NBU 921-35E1CS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
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 Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST • VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=60' Date: 10/19/10

REVISED:

SHEET NO:

8

8 OF 16

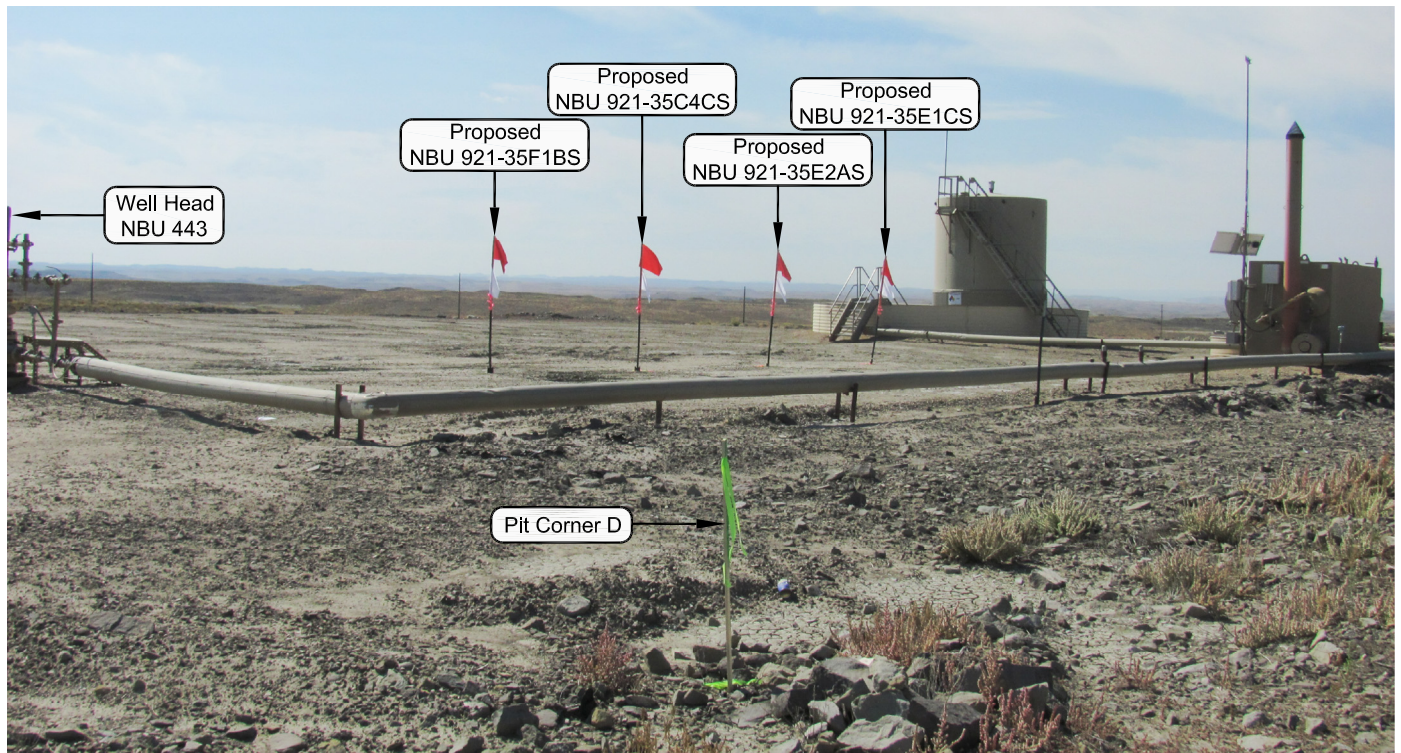


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35F2

LOCATION PHOTOS
NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.



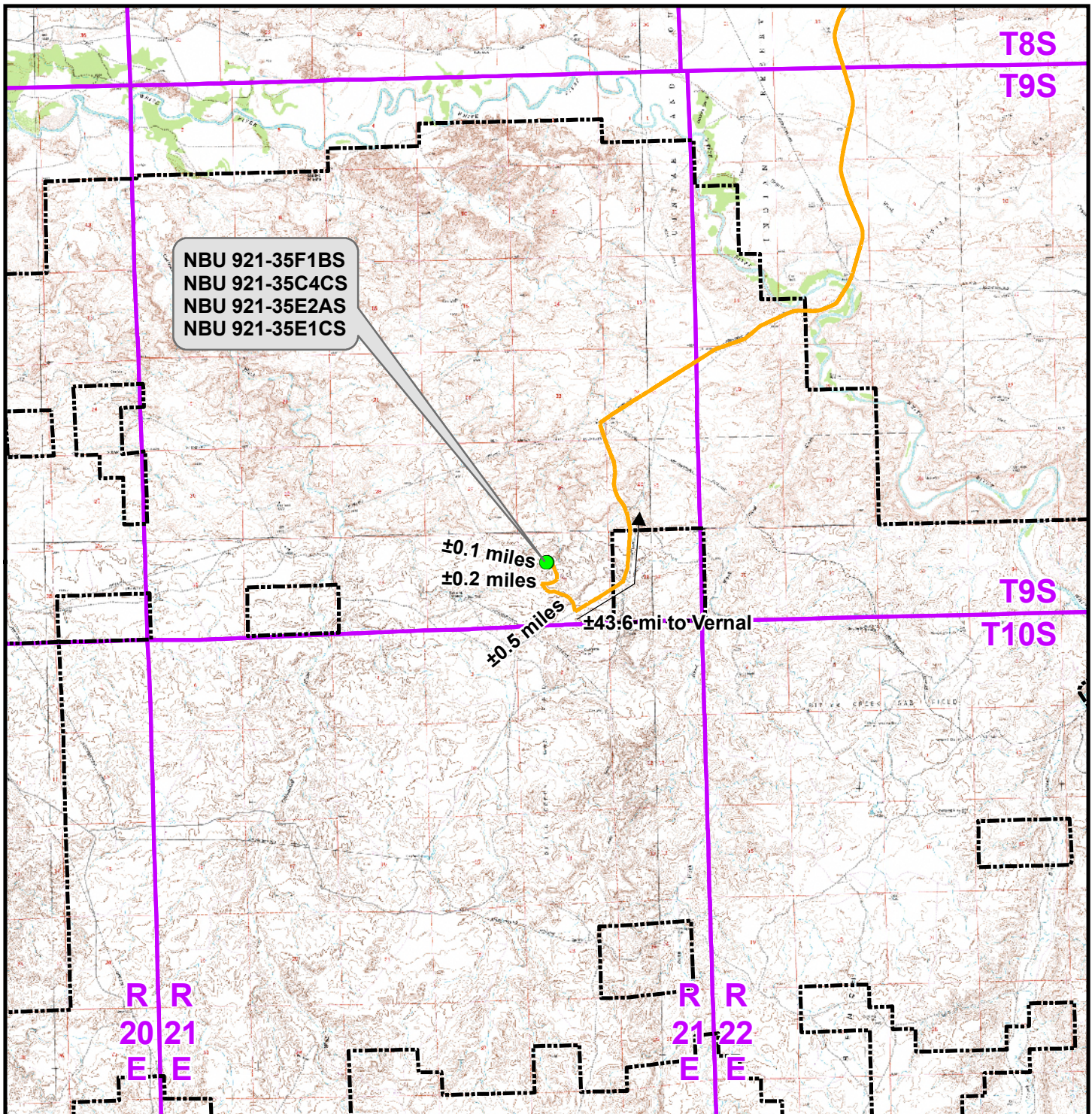
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 10-01-10	PHOTOS TAKEN BY: D.J.S.	9 9 OF 16
DATE DRAWN: 10-01-10	DRAWN BY: E.M.S.	
Date Last Revised:		



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 921-35F2 To Unit Boundary: ±3,573ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35F2

TOPO A

NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



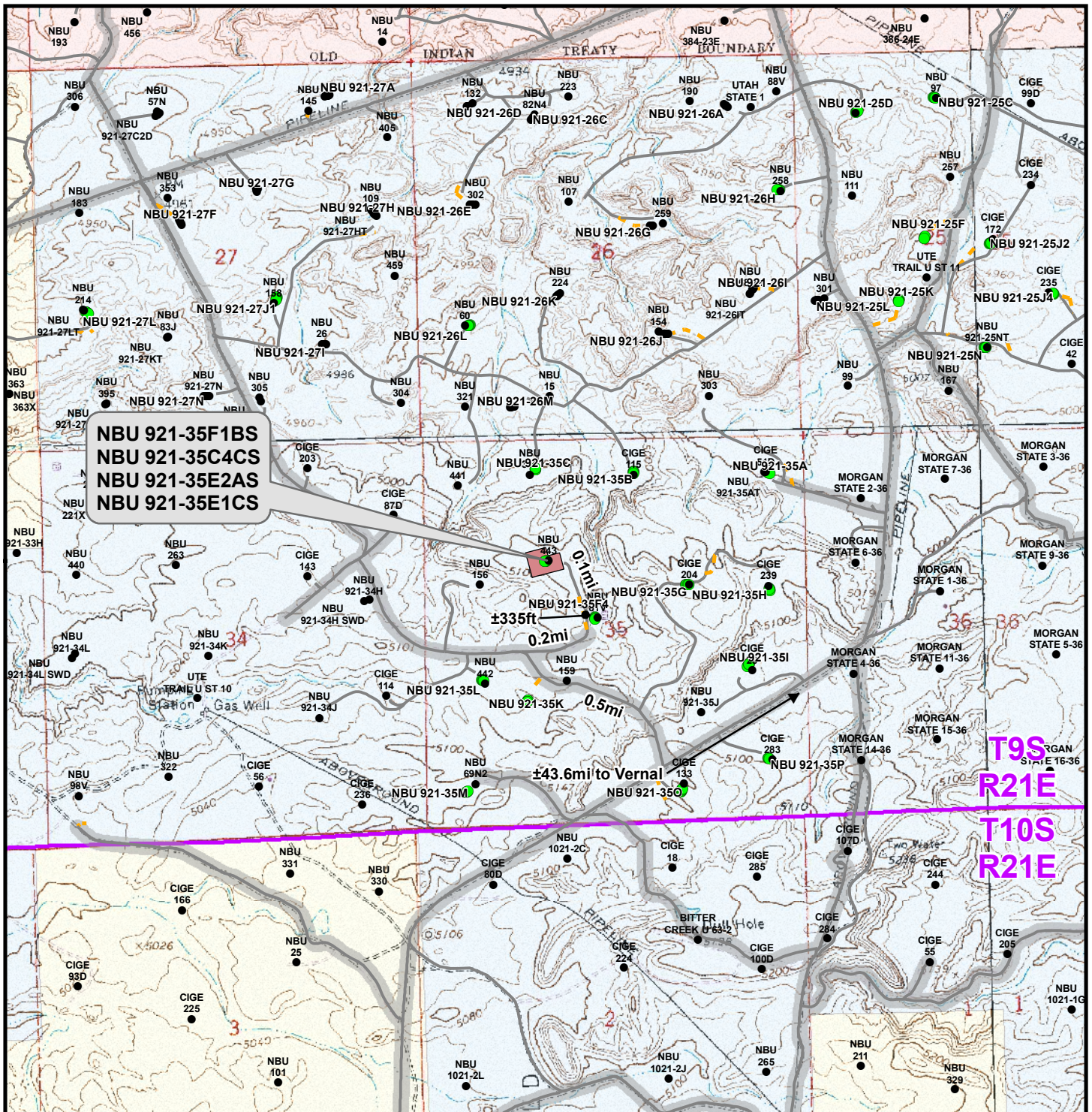
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: TL	Date: 19 Oct 2010
Revised:	Date:

Sheet No:

10 10 of 16



Legend

- | | | | | | |
|-------------------|-------------------|----------------------|---------------|-----------------------------|---------|
| ● Well - Proposed | ■ Well Pad | --- Road - Proposed | — County Road | ■ Bureau of Land Management | ■ State |
| ● Well - Existing | — Road - Existing | ■ Indian Reservation | ■ Private | | |

Total Proposed Road Length: ±0ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35F2

TOPO B

NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

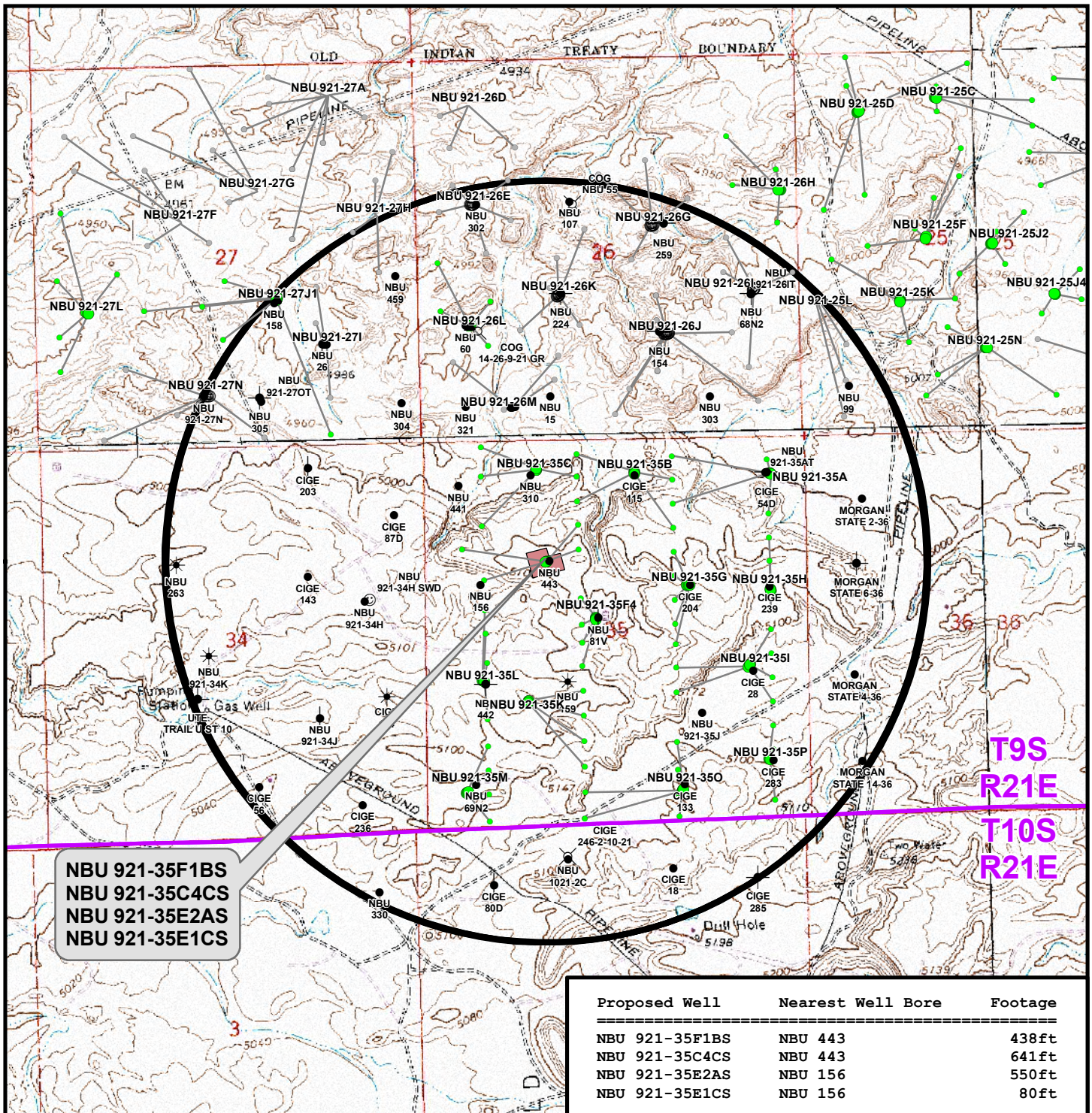


CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft
NAD83 USP Central
Drawn: TL
Revised: Date: 19 Oct 2010

Sheet No:
11
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Proposed Well	Nearest Well Bore	Footage
NBU 921-35F1BS	NBU 443	438ft
NBU 921-35C4CS	NBU 443	641ft
NBU 921-35E2AS	NBU 156	550ft
NBU 921-35E1CS	NBU 156	80ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- Temporarily-Abandoned
- Active
- Shut-In
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- Plugged and Abandoned
- New Permit (Not yet approved or drilled)
- Location Abandoned
- Inactive
- Dry hole marker, buried
- Drilling Operations Suspended
- Returned APD (Unapproved)

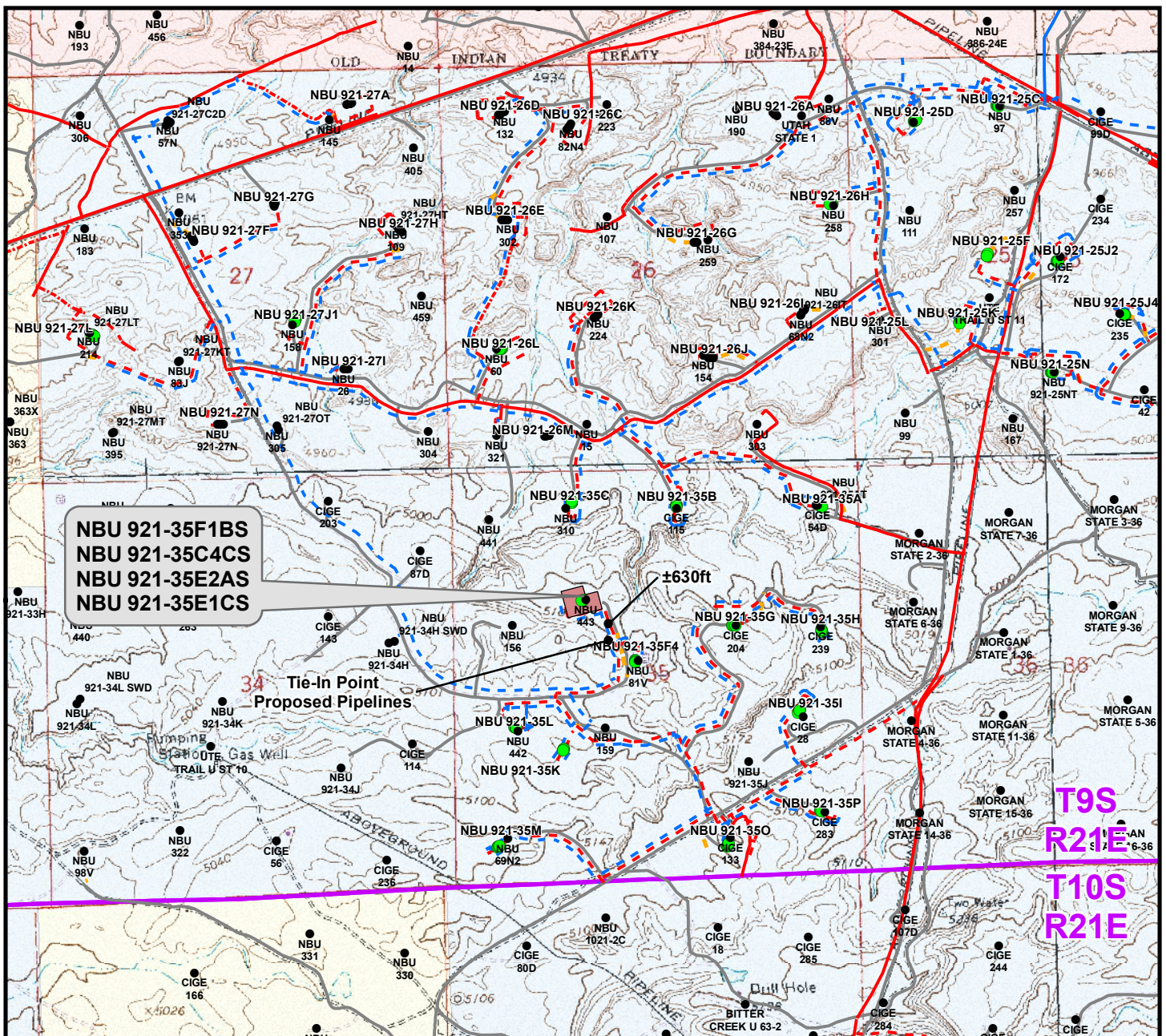
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35F2

TOPO C
NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	12 12 of 16
Revised:	Date:	



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±660ft
Proposed 6" (Max.) (Edge of Pad to 35F4 Intersection)	±630ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,290ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±660ft
Proposed 6" (Edge of Pad to 35F4 Intersection)	±630ft
TOTAL PROPOSED GAS PIPELINE =	±1,290ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - To Be Upgraded
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Proposed
- - - Liquid Pipeline - To Be Upgraded
- - - Liquid Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35F2

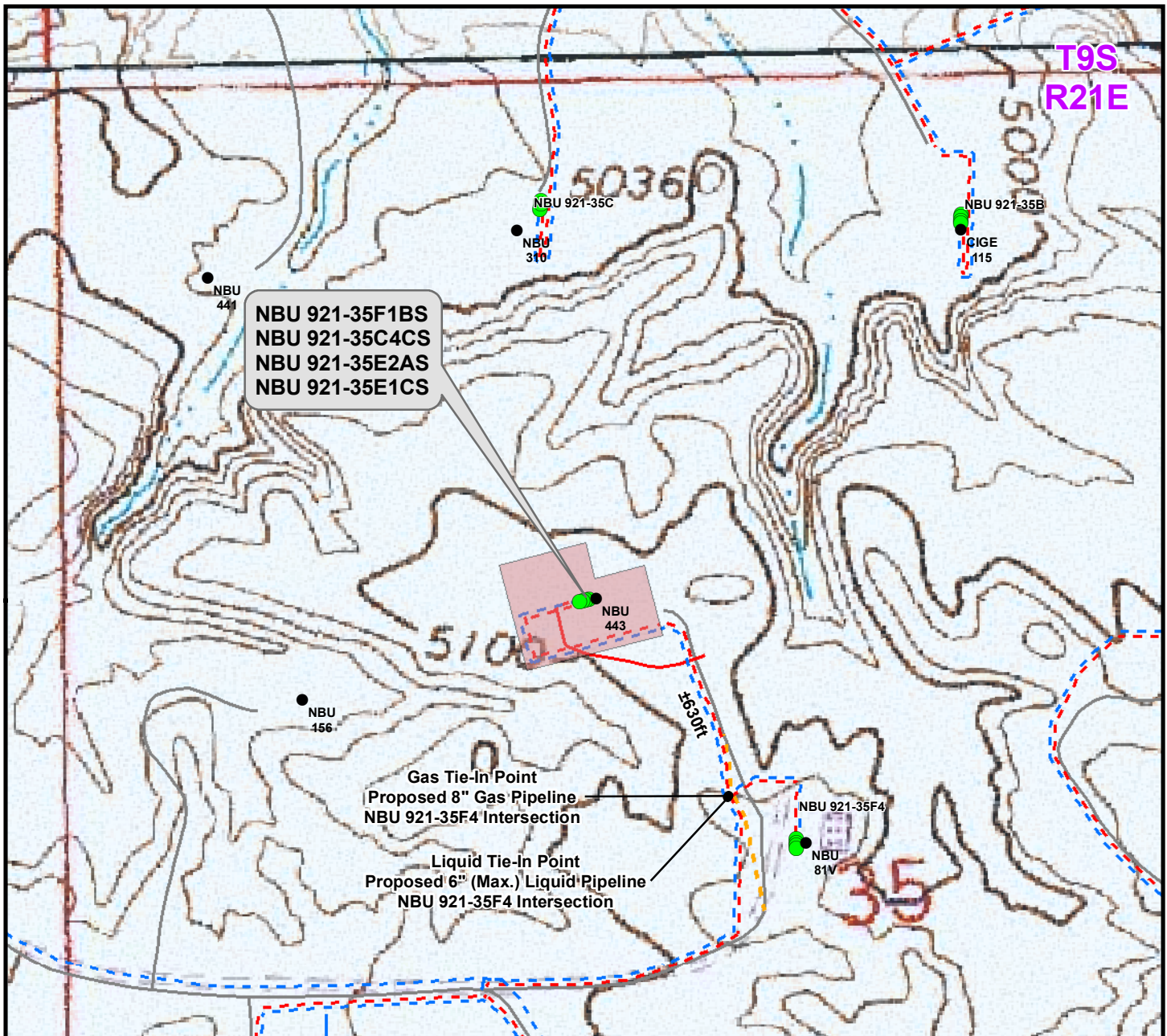
TOPO D
NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft
NAD83 USP Central
Drawn: TL
Revised:
Date: 19 Oct 2010
Date:

Sheet No:
13
13 of 16



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±660ft
Proposed 6" (Max.) (Edge of Pad to 35F4 Intersection)	±630ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,290ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±660ft
Proposed 6" (Edge of Pad to 35F4 Intersection)	±630ft
TOTAL PROPOSED GAS PIPELINE =	±1,290ft

Legend

● Well - Proposed	Well Pad	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
● Well - Existing		Gas Pipeline - To Be Upgraded	Liquid Pipeline - To Be Upgraded	Road - Existing	Indian Reservation
		Gas Pipeline - Existing	Liquid Pipeline - Existing		State
					Private

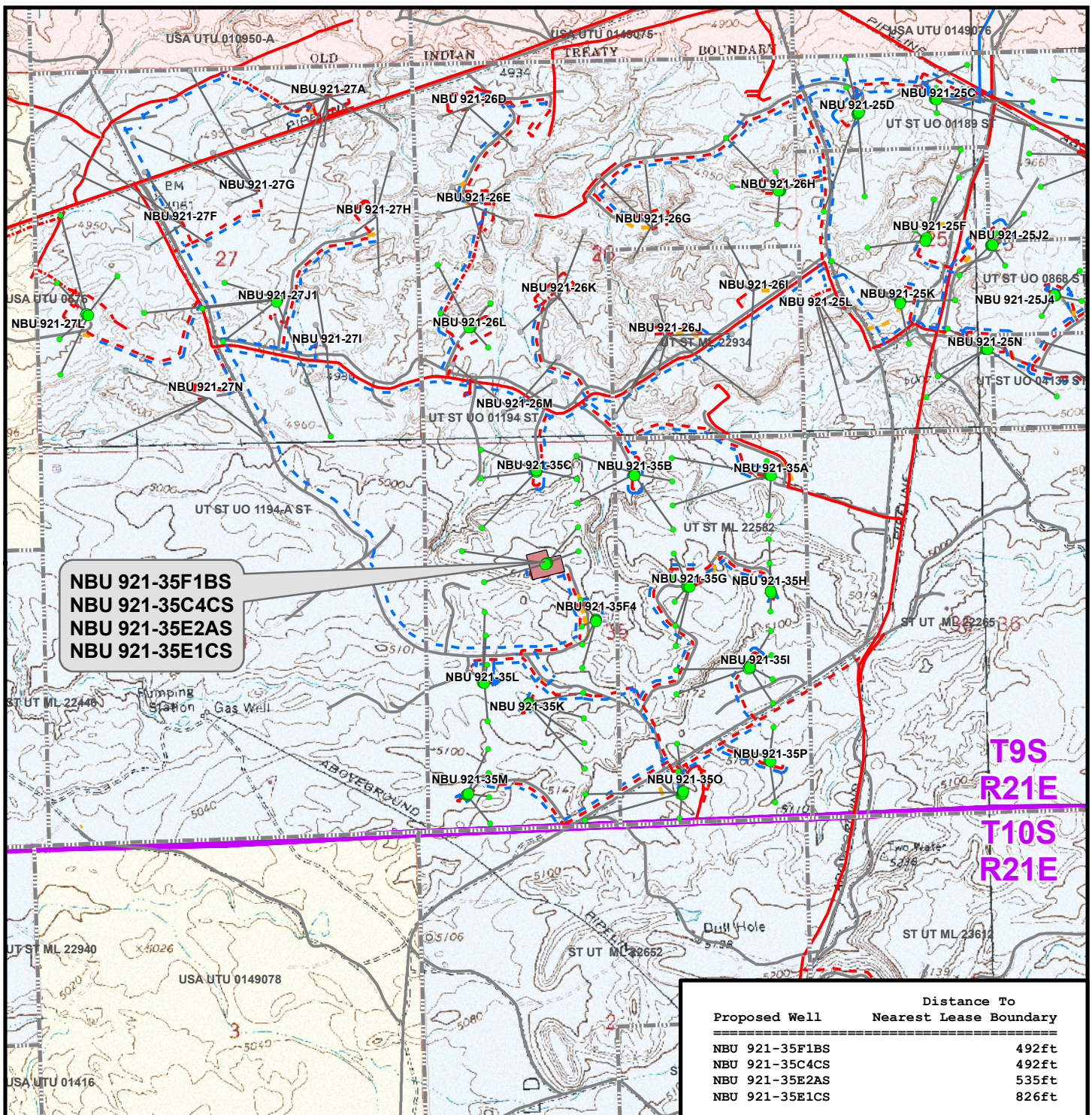
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35F2

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	14
Revised:	Date:	14 of 16



Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▬ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35F2

TOPO E
NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft
 NAD83 USP Central
 Drawn: TL
 Revised:
 Date: 19 Oct 2010
 Date:

Sheet No:

15 15 of 16

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35F2
WELLS – NBU 921-35F1BS, NBU 921-35C4CS,
NBU 921-35E2AS & NBU 921-35E1CS
Section 35, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 20.1 miles to a Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the Class D County Road approximately 0.5 miles to a second Class D County Road to the east. Exit right and proceed in an easterly then northeasterly direction along the second Class D County Road approximately 0.2 miles to the proposed NBU 921-35F4 well pad. Continue in a northwesterly direction through the proposed NBU 921-35F4 well pad approximately 335 feet to a service road to the northwest. Continue in a northwesterly direction along the service road approximately 0.1 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 44.5 miles in a southerly direction.

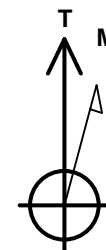
WELL DETAILS: NBU 921-35C4CS

GL 5105' & KB 14'
@ 5119.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14527724.03	2054497.65	39° 59' 42.655 N	109° 31' 17.688 W

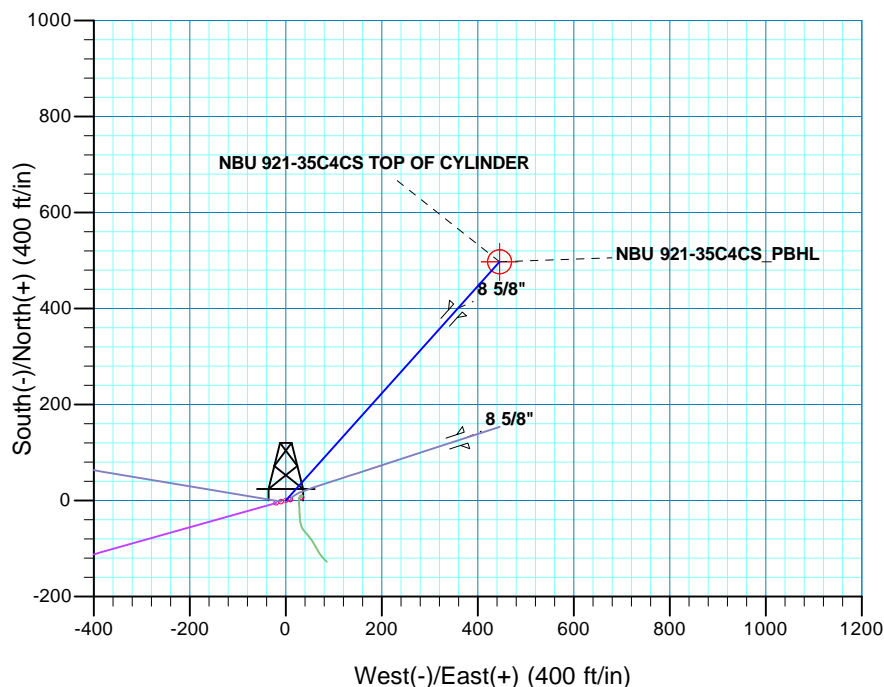
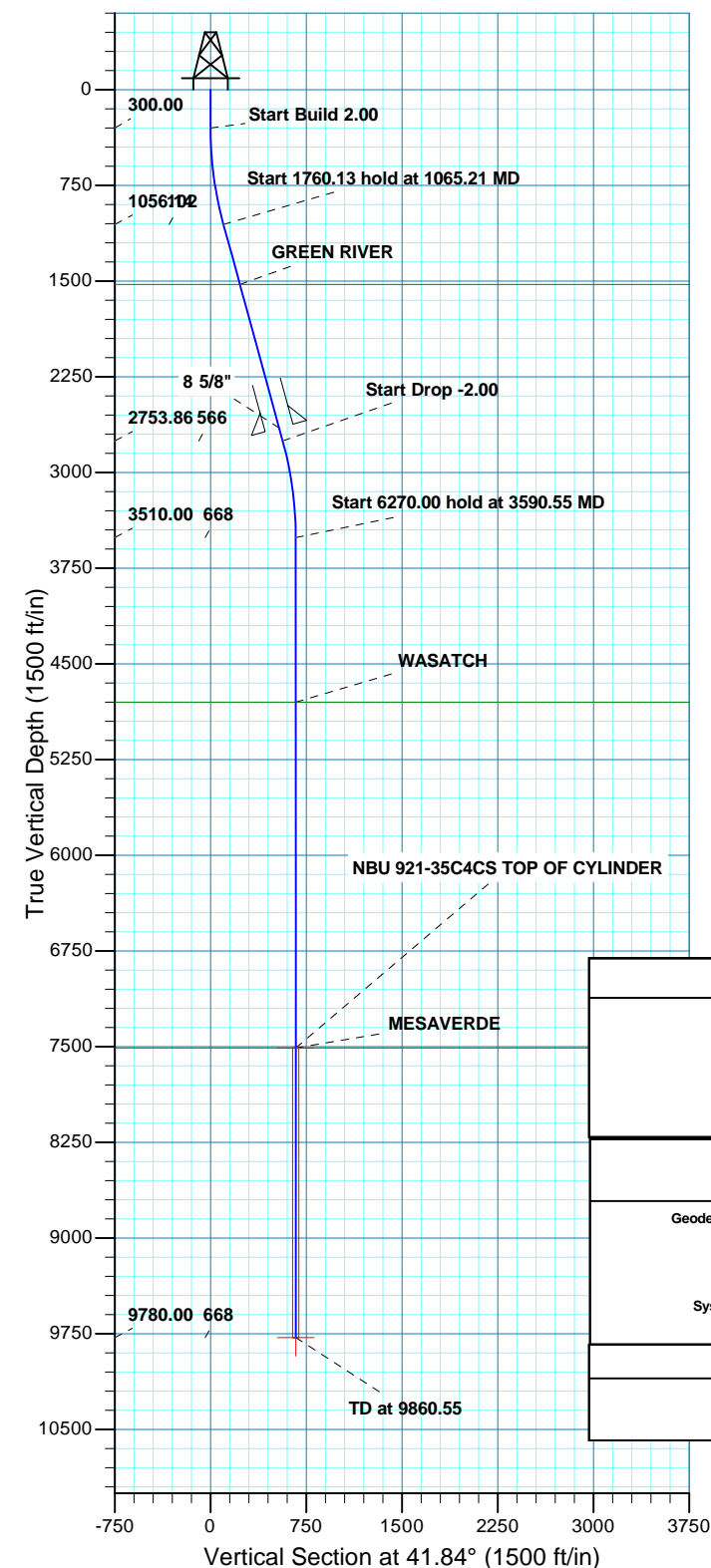
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
TOP OF CYLINDER	7509.00	497.51	445.40	14528228.86	2054934.74	39° 59' 47.573 N	109° 31' 11.964 W	Point
- plan hits target center								
PBHL	9780.00	497.51	445.40	14528228.86	2054934.74	39° 59' 47.573 N	109° 31' 11.964 W	Circle (Radius: 25.00)
- plan hits target center								



Azimuths to True North
Magnetic North: 11.16°

Magnetic Field
Strength: 52385.3snT
Dip Angle: 65.88°
Date: 10/27/2010
Model: IGRF2010



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1065.21	15.30	41.84	1056.14	75.69	67.76	2.00	41.84	101.59	
2825.34	15.30	41.84	2753.86	421.82	377.64	0.00	0.00	566.17	
3590.55	0.00	0.00	3510.00	497.51	445.40	2.00	180.00	667.76	
9860.55	0.00	0.00	9780.00	497.51	445.40	0.00	0.00	667.76	NBU 921-35C4CS_PBHL

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SEC 35 T9S R21E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1526.00	1552.34	GREEN RIVER
4801.00	4881.55	WASATCH
7509.00	7589.55	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2651.00	2718.70	8 5/8"	8.625

Plan: PLAN #1 (NBU 921-35C4CS/OH)

Created By: RobertScott Date: 8:21, October 28 2010

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-35F2 Pad

NBU 921-35C4CS

OH

Plan: PLAN #1

Standard Planning Report

28 October, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35F2 Pad, SEC 35 T9S R21E		
Site Position:		Northing:	14,527,718.98 usft
From:	Lat/Long	Easting:	2,054,478.12 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39° 59' 42.608 N
		Longitude:	109° 31' 17.940 W
		Grid Convergence:	0.95 °

Well	NBU 921-35C4CS, 1686' FNL 1699' FWL		
Well Position	+N/-S	4.73 ft	Northing: 14,527,724.04 usft
	+E/-W	19.61 ft	Easting: 2,054,497.65 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	5,105.00 ft
		Latitude:	39° 59' 42.655 N
		Longitude:	109° 31' 17.688 W
		Ground Level:	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,385

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	41.84

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,065.21	15.30	41.84	1,056.14	75.69	67.76	2.00	2.00	0.00	41.84	
2,825.34	15.30	41.84	2,753.86	421.82	377.64	0.00	0.00	0.00	0.00	
3,590.55	0.00	0.00	3,510.00	497.51	445.40	2.00	-2.00	0.00	180.00	
9,860.55	0.00	0.00	9,780.00	497.51	445.40	0.00	0.00	0.00	0.00	NBU 921-35C4CS_PI

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	41.84	399.98	1.30	1.16	1.75	2.00	2.00	0.00
500.00	4.00	41.84	499.84	5.20	4.65	6.98	2.00	2.00	0.00
600.00	6.00	41.84	599.45	11.69	10.47	15.69	2.00	2.00	0.00
700.00	8.00	41.84	698.70	20.77	18.60	27.88	2.00	2.00	0.00
800.00	10.00	41.84	797.47	32.43	29.03	43.52	2.00	2.00	0.00
900.00	12.00	41.84	895.62	46.64	41.76	62.60	2.00	2.00	0.00
1,000.00	14.00	41.84	993.06	63.40	56.76	85.10	2.00	2.00	0.00
1,065.21	15.30	41.84	1,056.14	75.69	67.76	101.59	2.00	2.00	0.00
Start 1760.13 hold at 1065.21 MD									
1,100.00	15.30	41.84	1,089.70	82.53	73.89	110.77	0.00	0.00	0.00
1,200.00	15.30	41.84	1,186.15	102.20	91.49	137.17	0.00	0.00	0.00
1,300.00	15.30	41.84	1,282.61	121.86	109.10	163.56	0.00	0.00	0.00
1,400.00	15.30	41.84	1,379.06	141.53	126.70	189.96	0.00	0.00	0.00
1,500.00	15.30	41.84	1,475.51	161.19	144.31	216.35	0.00	0.00	0.00
1,552.34	15.30	41.84	1,526.00	171.48	153.52	230.17	0.00	0.00	0.00
GREEN RIVER									
1,600.00	15.30	41.84	1,571.97	180.86	161.91	242.75	0.00	0.00	0.00
1,700.00	15.30	41.84	1,668.42	200.52	179.52	269.14	0.00	0.00	0.00
1,800.00	15.30	41.84	1,764.88	220.19	197.13	295.53	0.00	0.00	0.00
1,900.00	15.30	41.84	1,861.33	239.85	214.73	321.93	0.00	0.00	0.00
2,000.00	15.30	41.84	1,957.78	259.52	232.34	348.32	0.00	0.00	0.00
2,100.00	15.30	41.84	2,054.24	279.18	249.94	374.72	0.00	0.00	0.00
2,200.00	15.30	41.84	2,150.69	298.85	267.55	401.11	0.00	0.00	0.00
2,300.00	15.30	41.84	2,247.15	318.51	285.15	427.51	0.00	0.00	0.00
2,400.00	15.30	41.84	2,343.60	338.18	302.76	453.90	0.00	0.00	0.00
2,500.00	15.30	41.84	2,440.05	357.84	320.36	480.29	0.00	0.00	0.00
2,600.00	15.30	41.84	2,536.51	377.51	337.97	506.69	0.00	0.00	0.00
2,700.00	15.30	41.84	2,632.96	397.17	355.57	533.08	0.00	0.00	0.00
2,718.70	15.30	41.84	2,651.00	400.85	358.87	538.02	0.00	0.00	0.00
8 5/8"									
2,800.00	15.30	41.84	2,729.41	416.84	373.18	559.48	0.00	0.00	0.00
2,825.34	15.30	41.84	2,753.86	421.82	377.64	566.17	0.00	0.00	0.00
Start Drop -2.00									
2,900.00	13.81	41.84	2,826.12	435.80	390.16	584.93	2.00	-2.00	0.00
3,000.00	11.81	41.84	2,923.62	452.32	404.95	607.10	2.00	-2.00	0.00
3,100.00	9.81	41.84	3,021.84	466.29	417.46	625.86	2.00	-2.00	0.00
3,200.00	7.81	41.84	3,120.66	477.71	427.67	641.18	2.00	-2.00	0.00
3,300.00	5.81	41.84	3,219.95	486.54	435.58	653.04	2.00	-2.00	0.00
3,400.00	3.81	41.84	3,319.59	492.79	441.18	661.42	2.00	-2.00	0.00
3,500.00	1.81	41.84	3,419.46	496.44	444.45	666.33	2.00	-2.00	0.00
3,590.55	0.00	0.00	3,510.00	497.51	445.40	667.76	2.00	-2.00	-46.20
Start 6270.00 hold at 3590.55 MD									
3,600.00	0.00	0.00	3,519.45	497.51	445.40	667.76	0.00	0.00	0.00
3,700.00	0.00	0.00	3,619.45	497.51	445.40	667.76	0.00	0.00	0.00
3,800.00	0.00	0.00	3,719.45	497.51	445.40	667.76	0.00	0.00	0.00
3,900.00	0.00	0.00	3,819.45	497.51	445.40	667.76	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,000.00	0.00	0.00	3,919.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,019.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,119.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,219.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,319.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,419.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,519.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,619.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,719.45	497.51	445.40	667.76	0.00	0.00	0.00	
4,881.55	0.00	0.00	4,801.00	497.51	445.40	667.76	0.00	0.00	0.00	
WASATCH										
4,900.00	0.00	0.00	4,819.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,919.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,019.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,119.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,219.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,319.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,419.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,519.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,619.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,719.45	497.51	445.40	667.76	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,819.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,919.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,019.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,119.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,219.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,319.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,419.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,519.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,619.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,719.45	497.51	445.40	667.76	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,819.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,919.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,019.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,119.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,219.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,319.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,419.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,589.55	0.00	0.00	7,509.00	497.51	445.40	667.76	0.00	0.00	0.00	
MESAVERDE - NBU 921-35C4CS TOP OF CYLINDER										
7,600.00	0.00	0.00	7,519.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,619.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,719.45	497.51	445.40	667.76	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,819.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,919.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,019.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,119.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,219.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,319.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,419.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,519.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,619.45	497.51	445.40	667.76	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,800.00	0.00	0.00	8,719.45	497.51	445.40	667.76	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,819.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,919.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,019.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,119.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,219.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,319.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,419.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,519.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,619.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,719.45	497.51	445.40	667.76	0.00	0.00	0.00	
9,860.55	0.00	0.00	9,780.00	497.51	445.40	667.76	0.00	0.00	0.00	
NBU 921-35C4CS_PBHL										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
NBU 921-35C4CS TOP - plan hits target center - Point	0.00	0.00	7,509.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W	
NBU 921-35C4CS_PBH - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,780.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,718.70	2,651.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,552.34	1,526.00	GREEN RIVER				
4,881.55	4,801.00	WASATCH				
7,589.55	7,509.00	MESAVERDE				

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,065.21	1,056.14	75.69	67.76	Start 1760.13 hold at 1065.21 MD
2,825.34	2,753.86	421.82	377.64	Start Drop -2.00
3,590.55	3,510.00	497.51	445.40	Start 6270.00 hold at 3590.55 MD
9,860.55	9,780.00	497.51	445.40	TD at 9860.55

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-35F2 Pad

NBU 921-35C4CS

OH

Plan: PLAN #1

Standard Planning Report - Geographic

28 October, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35F2 Pad, SEC 35 T9S R21E		
Site Position:		Northing:	14,527,718.98 usft
From:	Lat/Long	Easting:	2,054,478.12 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Grid Convergence:	0.95 °

Well	NBU 921-35C4CS, 1686' FNL 1699' FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,527,724.04 usft
	+E/-W	0.00 ft	Easting: 2,054,497.65 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 39° 59' 42.608 N
			Longitude: 109° 31' 17.940 W
			Ground Level: 5,105.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,385

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	41.84

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,065.21	15.30	41.84	1,056.14	75.69	67.76	2.00	2.00	0.00	41.84	
2,825.34	15.30	41.84	2,753.86	421.82	377.64	0.00	0.00	0.00	0.00	
3,590.55	0.00	0.00	3,510.00	497.51	445.40	2.00	-2.00	0.00	180.00	
9,860.55	0.00	0.00	9,780.00	497.51	445.40	0.00	0.00	0.00	0.00	NBU 921-35C4CS_PI

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
100.00	0.00	0.00	100.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
200.00	0.00	0.00	200.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
300.00	0.00	0.00	300.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
Start Build 2.00									
400.00	2.00	41.84	399.98	1.30	1.16	14,527,725.36	2,054,498.79	39° 59' 42.668 N	109° 31' 17.673 W
500.00	4.00	41.84	499.84	5.20	4.65	14,527,729.31	2,054,502.22	39° 59' 42.707 N	109° 31' 17.628 W
600.00	6.00	41.84	599.45	11.69	10.47	14,527,735.90	2,054,507.92	39° 59' 42.771 N	109° 31' 17.553 W
700.00	8.00	41.84	698.70	20.77	18.60	14,527,745.11	2,054,515.90	39° 59' 42.861 N	109° 31' 17.449 W
800.00	10.00	41.84	797.47	32.43	29.03	14,527,756.94	2,054,526.14	39° 59' 42.976 N	109° 31' 17.315 W
900.00	12.00	41.84	895.62	46.64	41.76	14,527,771.37	2,054,538.62	39° 59' 43.116 N	109° 31' 17.151 W
1,000.00	14.00	41.84	993.06	63.40	56.76	14,527,788.37	2,054,553.35	39° 59' 43.282 N	109° 31' 16.959 W
1,065.21	15.30	41.84	1,056.14	75.69	67.76	14,527,800.84	2,054,564.15	39° 59' 43.403 N	109° 31' 16.817 W
Start 1760.13 hold at 1065.21 MD									
1,100.00	15.30	41.84	1,089.70	82.53	73.89	14,527,807.78	2,054,570.16	39° 59' 43.471 N	109° 31' 16.738 W
1,200.00	15.30	41.84	1,186.15	102.20	91.49	14,527,827.74	2,054,587.43	39° 59' 43.665 N	109° 31' 16.512 W
1,300.00	15.30	41.84	1,282.61	121.86	109.10	14,527,847.69	2,054,604.71	39° 59' 43.860 N	109° 31' 16.286 W
1,400.00	15.30	41.84	1,379.06	141.53	126.70	14,527,867.65	2,054,621.99	39° 59' 44.054 N	109° 31' 16.060 W
1,500.00	15.30	41.84	1,475.51	161.19	144.31	14,527,887.60	2,054,639.26	39° 59' 44.248 N	109° 31' 15.833 W
1,552.34	15.30	41.84	1,526.00	171.48	153.52	14,527,898.04	2,054,648.31	39° 59' 44.350 N	109° 31' 15.715 W
GREEN RIVER									
1,600.00	15.30	41.84	1,571.97	180.86	161.91	14,527,907.55	2,054,656.54	39° 59' 44.443 N	109° 31' 15.607 W
1,700.00	15.30	41.84	1,668.42	200.52	179.52	14,527,927.51	2,054,673.82	39° 59' 44.637 N	109° 31' 15.381 W
1,800.00	15.30	41.84	1,764.88	220.19	197.13	14,527,947.46	2,054,691.09	39° 59' 44.832 N	109° 31' 15.155 W
1,900.00	15.30	41.84	1,861.33	239.85	214.73	14,527,967.42	2,054,708.37	39° 59' 45.026 N	109° 31' 14.928 W
2,000.00	15.30	41.84	1,957.78	259.52	232.34	14,527,987.37	2,054,725.65	39° 59' 45.220 N	109° 31' 14.702 W
2,100.00	15.30	41.84	2,054.24	279.18	249.94	14,528,007.33	2,054,742.92	39° 59' 45.415 N	109° 31' 14.476 W
2,200.00	15.30	41.84	2,150.69	298.85	267.55	14,528,027.28	2,054,760.20	39° 59' 45.609 N	109° 31' 14.250 W
2,300.00	15.30	41.84	2,247.15	318.51	285.15	14,528,047.23	2,054,777.48	39° 59' 45.804 N	109° 31' 14.023 W
2,400.00	15.30	41.84	2,343.60	338.18	302.76	14,528,067.19	2,054,794.75	39° 59' 45.998 N	109° 31' 13.797 W
2,500.00	15.30	41.84	2,440.05	357.84	320.36	14,528,087.14	2,054,812.03	39° 59' 46.192 N	109° 31' 13.571 W
2,600.00	15.30	41.84	2,536.51	377.51	337.97	14,528,107.10	2,054,829.31	39° 59' 46.387 N	109° 31' 13.345 W
2,700.00	15.30	41.84	2,632.96	397.17	355.57	14,528,127.05	2,054,846.58	39° 59' 46.581 N	109° 31' 13.118 W
2,718.70	15.30	41.84	2,651.00	400.85	358.87	14,528,130.78	2,054,849.82	39° 59' 46.617 N	109° 31' 13.076 W
8 5/8"									
2,800.00	15.30	41.84	2,729.41	416.84	373.18	14,528,147.00	2,054,863.86	39° 59' 46.775 N	109° 31' 12.892 W
2,825.34	15.30	41.84	2,753.86	421.82	377.64	14,528,152.06	2,054,868.24	39° 59' 46.825 N	109° 31' 12.835 W
Start Drop -2.00									
2,900.00	13.81	41.84	2,826.12	435.80	390.16	14,528,166.25	2,054,880.52	39° 59' 46.963 N	109° 31' 12.674 W
3,000.00	11.81	41.84	2,923.62	452.32	404.95	14,528,183.01	2,054,895.04	39° 59' 47.126 N	109° 31' 12.484 W
3,100.00	9.81	41.84	3,021.84	466.29	417.46	14,528,197.19	2,054,907.31	39° 59' 47.264 N	109° 31' 12.323 W
3,200.00	7.81	41.84	3,120.66	477.71	427.67	14,528,208.77	2,054,917.34	39° 59' 47.377 N	109° 31' 12.192 W
3,300.00	5.81	41.84	3,219.95	486.54	435.58	14,528,217.74	2,054,925.10	39° 59' 47.464 N	109° 31' 12.090 W
3,400.00	3.81	41.84	3,319.59	492.79	441.18	14,528,224.08	2,054,930.59	39° 59' 47.526 N	109° 31' 12.018 W
3,500.00	1.81	41.84	3,419.46	496.44	444.45	14,528,227.78	2,054,933.80	39° 59' 47.562 N	109° 31' 11.976 W
3,590.55	0.00	0.00	3,510.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
Start 6270.00 hold at 3590.55 MD									
3,600.00	0.00	0.00	3,519.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
3,700.00	0.00	0.00	3,619.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
3,800.00	0.00	0.00	3,719.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
3,900.00	0.00	0.00	3,819.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,000.00	0.00	0.00	3,919.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,100.00	0.00	0.00	4,019.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,200.00	0.00	0.00	4,119.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,300.00	0.00	0.00	4,219.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,400.00	0.00	0.00	4,319.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,500.00	0.00	0.00	4,419.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,600.00	0.00	0.00	4,519.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,700.00	0.00	0.00	4,619.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,800.00	0.00	0.00	4,719.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
4,881.55	0.00	0.00	4,801.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
WASATCH									
4,900.00	0.00	0.00	4,819.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,000.00	0.00	0.00	4,919.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,100.00	0.00	0.00	5,019.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,200.00	0.00	0.00	5,119.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,300.00	0.00	0.00	5,219.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,400.00	0.00	0.00	5,319.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,500.00	0.00	0.00	5,419.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,600.00	0.00	0.00	5,519.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,700.00	0.00	0.00	5,619.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,800.00	0.00	0.00	5,719.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
5,900.00	0.00	0.00	5,819.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,000.00	0.00	0.00	5,919.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,100.00	0.00	0.00	6,019.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,200.00	0.00	0.00	6,119.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,300.00	0.00	0.00	6,219.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,400.00	0.00	0.00	6,319.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,500.00	0.00	0.00	6,419.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,600.00	0.00	0.00	6,519.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,700.00	0.00	0.00	6,619.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,800.00	0.00	0.00	6,719.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
6,900.00	0.00	0.00	6,819.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,000.00	0.00	0.00	6,919.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,100.00	0.00	0.00	7,019.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,200.00	0.00	0.00	7,119.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,300.00	0.00	0.00	7,219.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,400.00	0.00	0.00	7,319.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,500.00	0.00	0.00	7,419.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,589.55	0.00	0.00	7,509.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
MESAVERDE - NBU 921-35C4CS TOP OF CYLINDER									
7,600.00	0.00	0.00	7,519.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,700.00	0.00	0.00	7,619.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,800.00	0.00	0.00	7,719.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
7,900.00	0.00	0.00	7,819.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,000.00	0.00	0.00	7,919.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,100.00	0.00	0.00	8,019.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,200.00	0.00	0.00	8,119.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,300.00	0.00	0.00	8,219.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,400.00	0.00	0.00	8,319.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,500.00	0.00	0.00	8,419.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,600.00	0.00	0.00	8,519.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,700.00	0.00	0.00	8,619.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
8,800.00	0.00	0.00	8,719.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,900.00	0.00	0.00	8,819.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,000.00	0.00	0.00	8,919.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,100.00	0.00	0.00	9,019.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,200.00	0.00	0.00	9,119.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,300.00	0.00	0.00	9,219.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,400.00	0.00	0.00	9,319.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,500.00	0.00	0.00	9,419.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,600.00	0.00	0.00	9,519.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,700.00	0.00	0.00	9,619.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,800.00	0.00	0.00	9,719.45	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
9,860.55	0.00	0.00	9,780.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
NBU 921-35C4CS_PBHL									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NBU 921-35C4CS TOP - plan hits target center - Point	0.00	0.00	7,509.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W
NBU 921-35C4CS_PBH - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,780.00	497.51	445.40	14,528,228.86	2,054,934.74	39° 59' 47.573 N	109° 31' 11.964 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,718.70	2,651.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,552.34	1,526.00	GREEN RIVER				
4,881.55	4,801.00	WASATCH				
7,589.55	7,509.00	MESAVERDE				

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ASSUMED)
Site:	NBU 921-35F2 Pad	North Reference:	True
Well:	NBU 921-35C4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,065.21	1,056.14	75.69	67.76	Start 1760.13 hold at 1065.21 MD
2,825.34	2,753.86	421.82	377.64	Start Drop -2.00
3,590.55	3,510.00	497.51	445.40	Start 6270.00 hold at 3590.55 MD
9,860.55	9,780.00	497.51	445.40	TD at 9860.55

NBU 921-35C4CS

Surface: 1,686' FNL 1,699' FWL (SE/4NW/4)

BHL: 1,187' FNL 2,148' FWL (NE/4NW/4)

NBU 921-35F1BS

Surface: 1,684' FNL 1,709' FWL (SE/4NW/4)

BHL: 1,531' FNL 2,146' FWL (SE/4NW/4)

NBU 921-35E2AS

Surface: 1,688' FNL 1,689' FWL (SE/4NW/4)

BHL: 1,498' FNL 535' FWL (SW/4NW/4)

NBU 921-35E1CS

Surface: 1,691' FNL 1,679' FWL (SE/4NW/4)

BHL: 1,933' FNL 826' FWL (SW/4NW/4)

Pad: NBU 921-35F2

Section 35 T9S R21E

Mineral Lease: UO 01194 ST

Uintah County, Utah

Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each

other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new road is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 443. This well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of November 11, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,290'$ and the individual segments are broken up as follows:

$\pm 660'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.

$\pm 630'$ (0.1 miles) –New 6" buried gas pipeline from the edge of pad to the NBU 921-35F4 pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,290'$ and the individual segments are broken up as follows:

- $\pm 660'$ (0.1 miles) –New 6” buried liquid pipeline from the separator to the edge of the pad.
- $\pm 630'$ (0.1 miles) –New 6” buried liquid pipeline from the edge of pad to the NBU 921-35F4 pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.
No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

- RNI in Sec. 5 T9S R22E
- Ace Oilfield in Sec. 2 T6S R20E
- MC&MC in Sec. 12 T6S R19E
- Pipeline Facility in Sec. 36 T9S R20E
- Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
- Bonanza Evaporation Pond in Sec. 2 T10S R23E
- Ouray #1 SWD in Sec. 1 T9S R21E
- NBU 159 SWD in Sec. 35 T9S R21E
- CIGE 112D SWD in Sec. 19 T9S R21E
- CIGE 114 SWD in Sec. 34 T9S R21E
- NBU 921-34K SWD in Sec. 34 T9S R21E
- NBU 921-33F SWD in Sec. 33 T9S R21E
- NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, The liner

will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-

vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA

675 East 500 South, Suite 500

Salt Lake City, UT 84102

K. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724


Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

November 19, 2010
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

October 25, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-35C4CS
T9S-R21E
Section 35: SENW (Surf), NENW (Bottom)
Surface: 1686' FNL, 1699' FWL
Bottom Hole: 1187' FNL, 2148' FWL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-35C4CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

November 19, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35A Pad

43-047-51339	NBU 921-35A1BS	Sec 35 T09S R21E 0522 FNL 0455 FEL
	BHL	Sec 35 T09S R21E 0327 FNL 0499 FEL

43-047-51340	NBU 921-35A4CS	Sec 35 T09S R21E 0524 FNL 0445 FEL
	BHL	Sec 35 T09S R21E 1079 FNL 0494 FEL

43-047-51341	NBU 921-35B1BS	Sec 35 T09S R21E 0518 FNL 0474 FEL
	BHL	Sec 35 T09S R21E 0257 FNL 1813 FEL

43-047-51342	NBU 921-35B4BS	Sec 35 T09S R21E 0520 FNL 0464 FEL
	BHL	Sec 35 T09S R21E 0916 FNL 1817 FEL

NBU 921-35B Pad

43-047-51343	NBU 921-35B1CS	Sec 35 T09S R21E 0468 FNL 2339 FEL
	BHL	Sec 35 T09S R21E 0582 FNL 1816 FEL

43-047-51344	NBU 921-35B4CS	Sec 35 T09S R21E 0488 FNL 2340 FEL
	BHL	Sec 35 T09S R21E 1249 FNL 1818 FEL

43-047-51345	NBU 921-35C1BS	Sec 35 T09S R21E 0458 FNL 2338 FEL
	BHL	Sec 35 T09S R21E 0207 FNL 2154 FWL

43-047-51346	NBU 921-35C4BS	Sec 35 T09S R21E 0478 FNL 2339 FEL
	BHL	Sec 35 T09S R21E 0860 FNL 2144 FWL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35C Pad

43-047-51347	NBU 921-35C1CS	Sec 35 T09S R21E 0399 FNL 1591 FWL
	BHL	Sec 35 T09S R21E 0522 FNL 2147 FWL
43-047-51348	NBU 921-35D1BS	Sec 35 T09S R21E 0389 FNL 1592 FWL
	BHL	Sec 35 T09S R21E 0089 FNL 0831 FWL
43-047-51349	NBU 921-35D1CS	Sec 35 T09S R21E 0409 FNL 1589 FWL
	BHL	Sec 35 T09S R21E 0488 FNL 0823 FWL
43-047-51350	NBU 921-35D4CS	Sec 35 T09S R21E 0418 FNL 1588 FWL
	BHL	Sec 35 T09S R21E 1182 FNL 0818 FWL

NBU 921-35F2 Pad

43-047-51351	NBU 921-35C4CS	Sec 35 T09S R21E 1686 FNL 1699 FWL
	BHL	Sec 35 T09S R21E 1187 FNL 2148 FWL
43-047-51352	NBU 921-35E1CS	Sec 35 T09S R21E 1691 FNL 1679 FWL
	BHL	Sec 35 T09S R21E 1933 FNL 0826 FWL
43-047-51353	NBU 921-35E2AS	Sec 35 T09S R21E 1688 FNL 1689 FWL
	BHL	Sec 35 T09S R21E 1498 FNL 0535 FWL

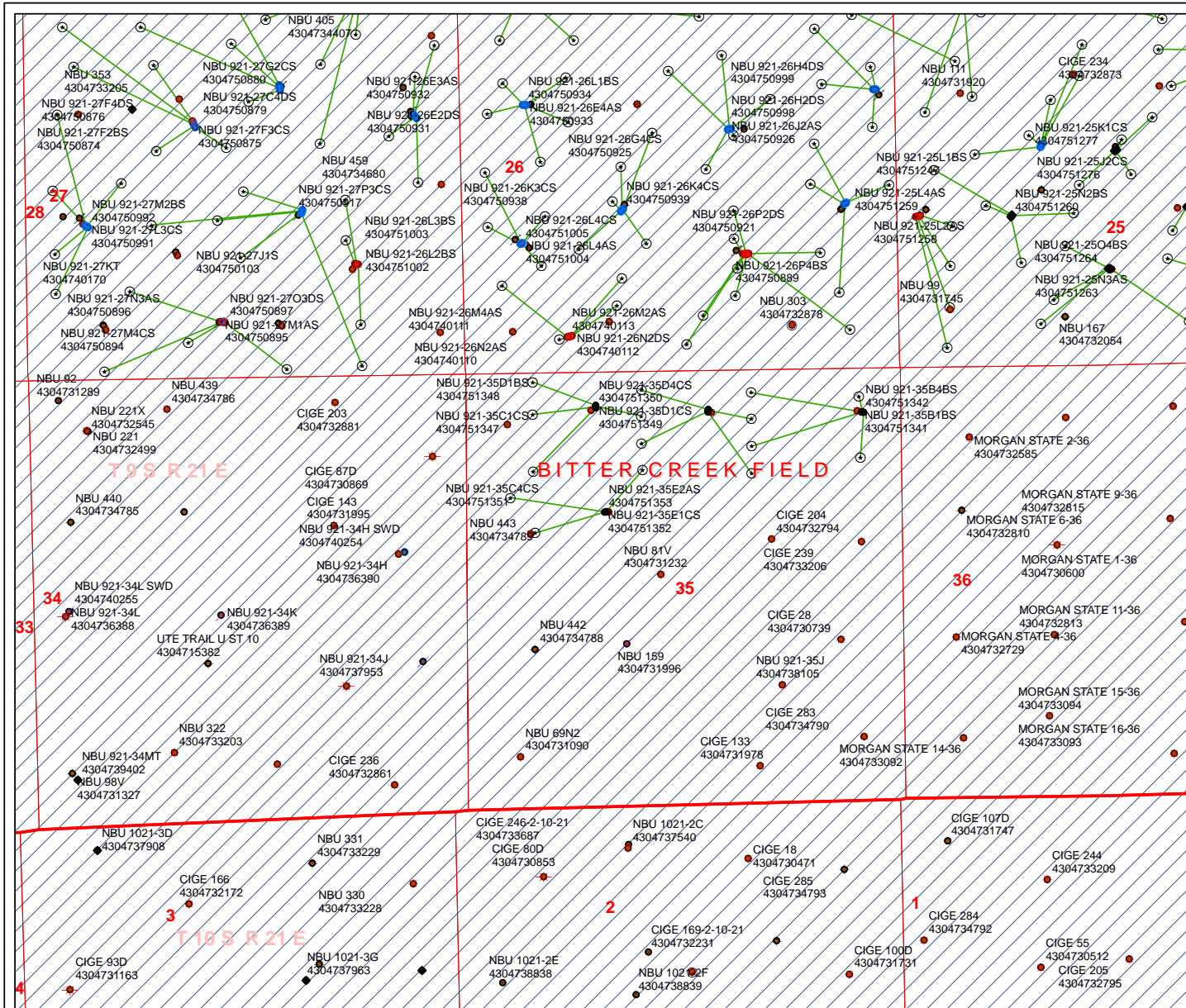
This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.11.19 09:52:13 -07'00'

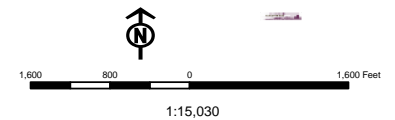
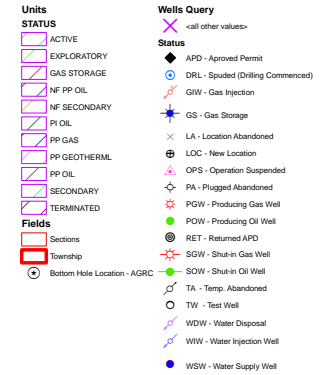
bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-19-10



API Number: 4304751351
Well Name: NBU 921-35C4CS
Township 09.0 S Range 21.0 E Section 35
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason



From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Curry, Kristine; Danielle Piernot; Garrison, LaVonne; Hayden, Martha;...
Date: 12/22/2010 5:49 AM
Subject: Kerr McGee APD approvals in 9S 21E Sec 35
Attachments: KMG approvals 921-35 on 12.22.2010.xls

The following wells have been approved by SITLA under the following arch and paleo stipulations. This is a long list, so I'm attaching a spreadsheet with the same information.

A note on arch and paleo stipulations: Wells that have an arch note "non-significant site" do not need to be avoided or mitigated. Only those that say "needs to be avoided".

The paleo reports make recommendations for "spot paleo monitoring" or "full paleo monitoring". It is my understanding that Kerr McGee is taking these stipulations and doing full monitoring in either case, in an abundance of caution.

-Jim Davis

Well Name	API	Paleo Stipulations	Arch Stipulations
Kerr-McGee's NBU 921-35A1BS (U-07-MQ-1437b,i,p,s)	API #4304751339		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35A4CS (U-07-MQ-1437b,i,p,s)	API #4304751340		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1BS (U-07-MQ-1437b,i,p,s)	API #4304751341		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4BS (U-07-MQ-1437b,i,p,s)	API #4304751342		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751343		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751344		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751345		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C4BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751346		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1CS (U-07-MQ-1437b,i,p,s)	API #4304751347		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1BS (U-07-MQ-1437b,i,p,s)	API #4304751348		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1CS (U-07-MQ-1437b,i,p,s)	API #4304751349		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D4CS (U-07-MQ-1437b,i,p,s)	API #4304751350		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35C4CS (U-07-MQ-1437b,i,p,s)	API #4304751351		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E1CS (U-07-MQ-1437b,i,p,s)	API #4304751352		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E2AS (U-07-MQ-1437b,i,p,s)	API #4304751353		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F1BS (U-07-MQ-1437b,i,p,s)	API #4304751355		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4BS (U-07-MQ-1437b,i,p,s)	API #4304751356		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4CS (U-07-MQ-1437b,i,p,s)	API #4304751357		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K1BS	API #4304751358		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)

MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K1CS	API #4304751359	IPC 10-97 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35G1BS	API #4304751360	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G1CS	API #4304751361	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4BS	API #4304751362	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4CS	API #4304751363	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35J1S	API #4304751364	IPC 10-98 Spot Paleo Monitoring	(U-07-
MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35H1BS	API #4304751365	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H1CS	API #4304751366	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4BS	API #4304751367	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4CS	API #4304751368	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1BS	API #4304751369	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1CS	API #4304751370	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4BS	API #4304751371	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4CS	API #4304751372	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J1CS	API #4304751373	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J4BS	API #4304751374	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4BS	API #4304751375	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4CS	API #4304751376	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1BS	API #4304751377	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1CS	API #4304751378	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35E4CS	API #4304751379	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P4CS	API #4304751380	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1CS	API #4304751381	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1BS	API #4304751382	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35O4CS	API #4304751383	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O4BS	API #4304751384	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O1CS	API #4304751385	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35L1BS	API #4304751386	IPC 10-99 Spot Paleo Monitoring	

(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35O1BS	API #4304751387	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35N4CS	API #4304751388	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35L1CS	API #4304751389	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35L4CS	API #4304751390	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1BS	API #4304751391	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1CS	API #4304751392	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4BS	API #4304751393	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4CS	API #4304751394	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35N4BS	API #4304751395	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35C4CS 4304751351			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2392	9780		
Previous Shoe Setting Depth (TVD)	40	2392		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5966	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1036	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	749	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	510	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	519	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

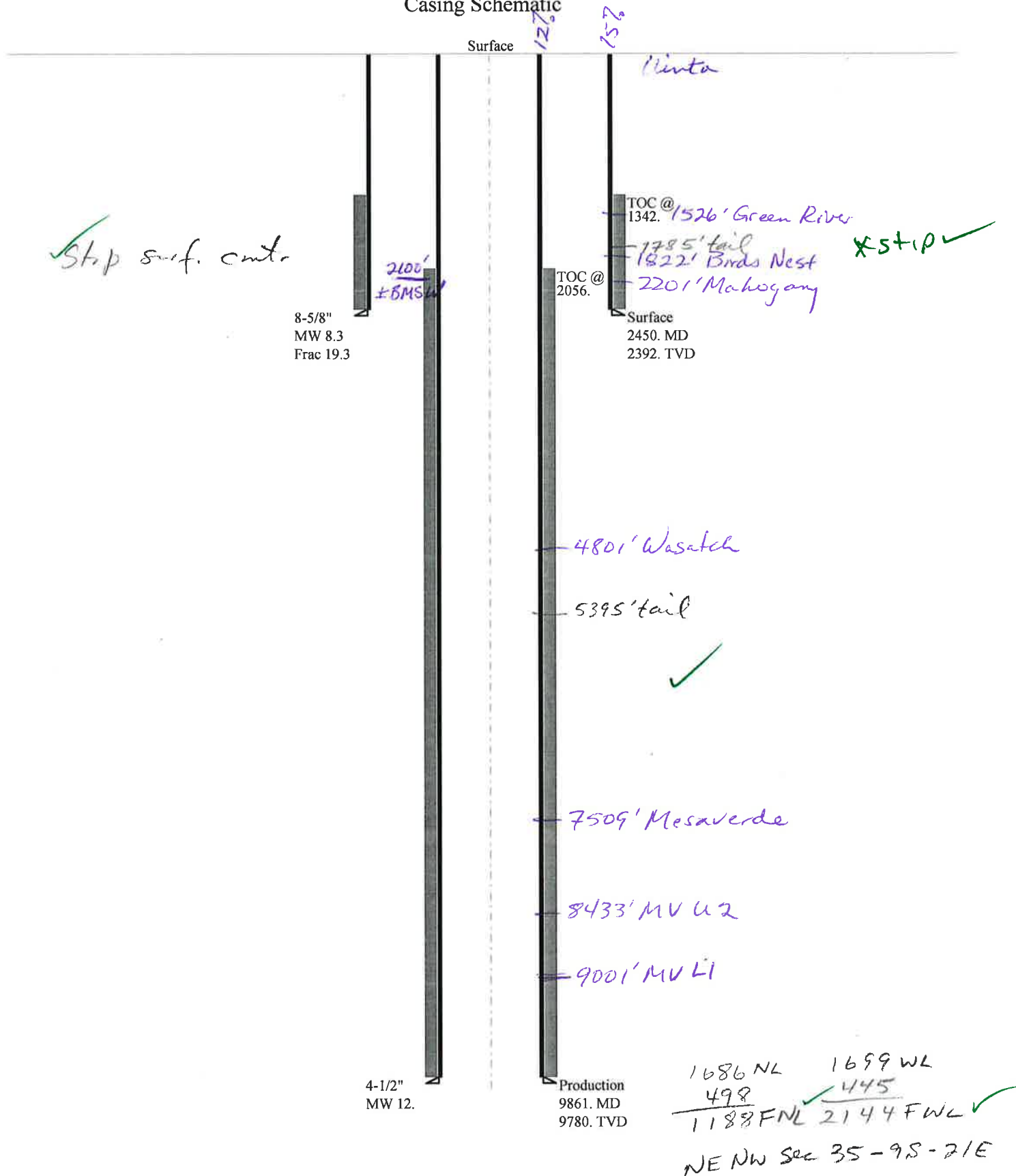
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6103	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4929	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3951	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4478	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2392	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047513510000 NBU 921-35C4CS

Casing Schematic



Well name:	43047513510000 NBU 921-35C4CS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Surface	Project ID: 43-047-51351
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 107 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,342 ft

Burst

Max anticipated surface pressure: 2,156 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,443 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,145 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 467 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 15.31 °

Re subsequent strings:

Next setting depth: 9,780 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,097 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,450 ft
Injection pressure: 2,450 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2450	8.625	28.00	I-55	LT&C	2392	2450	7.892	97020
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1035	1880	1.816	2443	3390	1.39	67	348	5.20 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 29, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2392 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047513510000 NBU 921-35C4CS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-51351
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 211 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,056 ft

Burst

Max anticipated surface pressure: 3,945 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,097 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 668 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 8,107 ft

Estimated cost: 128,870 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
2	9700	4.5	11.60	I-80	LT&C	9619	9700	3.875	128040
1	161	4.5	11.60	HCP-110	Buttress	9780	9861	3.875	830

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
2	5497	6348	1.155	6061	7780	1.28	113.5	212	1.87 J
1	5589	8650	1.548	6097	10690	1.75	1.9	367.2	99.99 B

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 29, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9780 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION**Utah Division of Oil, Gas and Mining**

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 921-35C4CS
API Number 43047513510000 **APD No** 3165 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SENW **Sec** 35 **Tw** 9.0S **Rng** 21.0E 1686 FNL 1699 FWL
GPS Coord (UTM) 626211 4428059 **Surface Owner**

Participants

See other comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 44.5 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35F2 pad will be enlarged to include four gas wells to be directionally drilled. They are the NBU 921-35F1BS, NBU 921-35C4CS, NBU 921-35E2AS and NBU 921-35E1CS. The pad extends a small existing pad containing the NBU 443 producing gas well in all directions except to the east. Terrain In the area is gentle and rolling. To obtain the needed fill for the enlarged pad the elevation at the well head will be cut. This cut however may be able to be reduced from the planned 3 feet to about 1 ½ feet. No drainages intersect the location and no diversions are needed. A major tributary of Sand Wash is about one mile to the east of the site and the White River about 3 miles down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan**Current Surface Use**

Grazing
 Wildlife Habitat
 Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 435	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?**Environmental Parameters**

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes rabbit brush, Indian ricegrass, horsebrush, stipa commata, greasewood, broom snakeweed, shadscale and halogeton.

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are a rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		40

1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120' x 260' x 12' deep located in a cut on the northwest corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Lovell Young, Grizz Oleen, Charles Chase, Colby Sutton, Doyle Holmes, Claudia Sass, (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA) and Ben Williams, (UDWR).

Floyd Bartlett
Evaluator

11/30/2010
Date / Time

Application for Permit to Drill

Statement of Basis

1/5/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3165	43047513510000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35C4CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SENW 35 9S 21E S 1686 FNL 1699 FWL GPS Coord (UTM) 626213E 4428052N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,450' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,100'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill
APD Evaluator

12/20/2010
Date / Time

Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 44.5 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35F2 pad will be enlarged to include four gas wells to be directionally drilled. They are the NBU 921-35F1BS, NBU 921-35C4CS, NBU 921-35E2AS and NBU 921-35E1CS. The pad extends a small existing pad containing the NBU 443 producing gas well in all directions except to the east. Terrain In the area is gentle and rolling. To obtain the needed fill for the enlarged pad the elevation at the well head will be cut. This cut however may be able to be reduced from the planned 3 feet to about 1 ½ feet. No drainages intersect the location and no diversions are needed. A major tributary of Sand Wash is about one mile to the east of the site and the White River about 3 miles down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Floyd Bartlett
Onsite Evaluator

11/30/2010
Date / Time

Application for Permit to Drill
Statement of Basis

1/5/2011

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/18/2010

WELL NAME: NBU 921-35C4CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

CONTACT: Danielle Piernot

API NO. ASSIGNED: 43047513510000

PHONE NUMBER: 720 929-6156

PROPOSED LOCATION: SENW 35 090S 210E

Permit Tech Review: ☒

SURFACE: 1686 FNL 1699 FWL

Engineering Review: ☒

BOTTOM: 1187 FNL 2148 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.99511

LONGITUDE: -109.52157

UTM SURF EASTINGS: 626213.00

NORTHINGS: 4428052.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 01194 ST

SURFACE OWNER: 3 - State

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ **PLAT**

☒ **Bond:** STATE/FEE - 22013542

☐ **Potash**

☒ **Oil Shale 190-5**

☐ **Oil Shale 190-3**

☐ **Oil Shale 190-13**

☒ **Water Permit:** Permit #43-8496

☐ **RDCC Review:**

☐ **Fee Surface Agreement**

☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

☐ **R649-2-3.**

Unit: NATURAL BUTTES

☐ **R649-3-2. General**

☐ **R649-3-3. Exception**

☒ **Drilling Unit**

Board Cause No: Cause 173-14

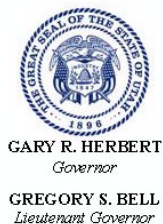
Effective Date: 12/2/1999

Siting: 460' Fr U Bdry & Uncommitted Tracts

☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
5 - Statement of Basis - bhll
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmadonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-35C4CS
API Well Number: 43047513510000
Lease Number: UO 01194 ST
Surface Owner: STATE
Approval Date: 1/5/2011

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 173-14 commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35C4CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1686 FNL 1699 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513510000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

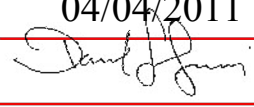
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/5/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: Pit Refub- ACTS
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 04/04/2011

By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/31/2011	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047513510000

A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the pit.

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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 4/8/2011	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 04/08/2011 AT 1:00 PM.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/11/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35C4CS
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/17/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
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	<input type="checkbox"/> PRODUCTION START OR RESUME	
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	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON APRIL 15, 2011. DRILLED 11" SURFACE HOLE TO 2650'. RAN 8 5/8" 28# IJ55 SURFACE CASING. CEMENTED SURFACE CASING. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 4/18/2011		

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-35C4CS
Qtr/Qtr SEnw Section 35 Township 9S Range 21E
Lease Serial Number UO-01194 ST
API Number 4304751351

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 04/08/2011 10:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

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APR 07 2011

DIV. OF OIL, GAS & MINING

Date/Time 04/15/2011 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751352	NBU 921-35E1CS		SEnw	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	4/8/2011		<u>4/25/11</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>W5MVD</u> SPUD WELL ON 04/08/2011 AT 9:30 AM. <u>BHL = SWNW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751353	NBU 921-35E2AS		SEnw	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	4/8/2011		<u>4/25/11</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>W5MVD</u> SPUD WELL ON 04/08/2011 AT 11:00 AM. <u>BHL = SWNW</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751351	NBU 921-35C4CS		SEnw	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	4/8/2011		<u>4/25/11</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. SPUD WELL ON 04/08/2011 AT 1:00 PM. <u>BHL = NENW</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

Date

(5/2000)

RECEIVED

APR 11 2011

DIV. OF OIL, GAS & MINING

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139
Submitted By SID ARMSTRONG Phone Number 435- 828-0984
Well Name/Number NBU-921-35C4CS
Qtr/Qtr SE/NW Section 35 Township 9S Range 21E
Lease Serial Number UO 01194ST
API Number 43047513510000

Casing – Time casing run starts, not cementing times.

- ☐ Production Casing
☐ Other

Date/Time ____ _ AM ☐ PM ☒

RECEIVED

MAY 26 2011

DIV. OF OIL, GAS & MINING

BOPE

- ☒ Initial BOPE test at surface casing point
☐ Other

Date/Time 5/27/2011 08:00 AM ☒ PM ☐

Rig Move

Location To: ____

Date/Time ____ AM ☒ PM ☐

Remarks BE SKIDDING RIG TO NBU 921 - 35C4CS
5/27/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35C4CS
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/3/2011	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2650' TO 9905' ON JUNE 1, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9437'. RAN 4 1/2" 11.6# P110 CSG FROM 9437' TO 9879'. CEMENTED PRODUCTION CASING RELEASED ENSIGN RIG 139 ON JUNE 3, 2011 @ 10:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 6/6/2011		

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139
Submitted By SID ARMSTRONG Phone Number 435- 828-0984
Well Name/Number NBU-921-35C4CS
Qtr/Qtr SE/NW Section 35 Township 9S Range 21E
Lease Serial Number UO 01194ST
API Number 43047513510000

Casing – Time casing run starts, not cementing times.

☒ Production Casing
☐ Other

Date/Time 6/2/2011 06:00 AM ☒ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ Other

Date/Time _____ AM ☐ PM ☐

RECEIVED

MAY 31 2011

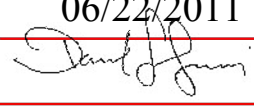
DIV. OF OIL, GAS & MINING

Rig Move

Location To: _____

Date/Time _____ AM ☒ PM ☐

Remarks BE SKIDDING RIG TO NBU 921 - 35F1BS
6/3/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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COUNTY: UINTAH		STATE: UTAH			
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<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/8/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Pit Utilization"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Pit Utilization"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Pit Utilization"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for the completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections. The following wells are on the NBU 921-35F2 Pad: NBU 921-35C4CS, NBU 921-35E1CS, NBU 921-35E2AS & NBU 921-35F1B					
Approved by the Utah Division of Oil, Gas and Mining Date: 06/22/2011 By: 					
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086			
SIGNATURE N/A		TITLE Regulatory Analyst II DATE 6/8/2011			

Please Review Attached Conditions of Approval

RECEIVED Jun. 08, 2011



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047513510000

A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the pit.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35C4CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1686 FNL 1699 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513510000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/2/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 08/02/2011 AT 2:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/3/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☒
(highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER AMENDED		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME UTU63047A
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217		8. WELL NAME and NUMBER: NBU 921-35C4CS
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SENW 1686 FNL 1699 FWL S35,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: NENW 1170 FNL 2134 FWL S35, T9S, R21E AT TOTAL DEPTH: NENW 1179 FNL 2159 FWL S35, T9S, R21E		9. API NUMBER: 4304751351
14. DATE SPURRED: 4/8/2011		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
15. DATE T.D. REACHED: 6/1/2011		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SEW 35 9S 21E S
16. DATE COMPLETED: 8/2/2011		12. COUNTY UINTAH
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH
17. ELEVATIONS (DF, RKB, RT, GL): 5105 GL		
18. TOTAL DEPTH: MD 9,905 TVD 9,817		21. DEPTH BRIDGE MD PLUG SET: TVD
19. PLUG BACK T.D.: MD 9,834 TVD 9,746		
20. IF MULTIPLE COMPLETIONS, HOW MANY? *		
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) RCBL-CHI TRIPLE COMBO-RMTE		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,626		650		0	
7 7/8"	4 1/2" I-80	11.6#		9,437		1,510		390	
7 7/8"	4 1/2" P110	11.6#	9,437	9,879					

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,198							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	7,486	7,488			7,486 7,488	0.36	8	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,558	9,750			7,558 9,750	0.36	184	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7486 - 9750	PUMP 9005 BBLs SLICK H2O & 171,979 LBS 30/50 OTTAWA SAND
	NEW REVISED COMPLETION CHRONO ATTACHED

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

PROD

RECEIVED

NOV 01 2011

DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/2/2011	TEST DATE: 8/3/2011	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,637	WATER – BBL: 1,083	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,863	CSG. PRESS. 2,523	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,607				
BIRD'S NEST	1,874				
MAHOGANY	2,429				
WASATCH	4,884	7,543			
MESAVERDE	7,543	9,905	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 ¼" bit. The remainder of surface hole was drilled with an 11" bit. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 10/24/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011	Spud Date: 4/15/2011
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/22/2011	End Date: 8/2/2011
Active Datum: RKB @5,119.01ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/22/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, PRESSURE TESTING
	7:15 - 15:00	7.75	COMP	47	B	P		MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 1000# W/ 6# LOSS IN 15 MIN. BUMP PRESSURE UP TO 3500# W/ 43# LOSS IN 15 MIN. BUMP PRESSURE UP TO 7000# W/ 112# LOSS IN 30 MIN. BUMP BACK UP TO 7000# W/ 105# LOSS IN 30 MIN. [GOOD TEST]
7/25/2011	7:00 - 7:45	0.75	COMP	48		P		MIRU CASED HOLE SOLUTIONS 1ST SHOOT MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE, AS PERSAY IN DESIGN. SWFN.
	7:45 - 7:45	0.00	COMP	36	E	P		HSM, PREFRAC DESIGN. PRESSURE TEST POPOFFS FRAC STG #1] WHP=1,845#, BRK DN PERFS=3,143#, @=4.3 BPM, INJ RT=50.4, INJ PSI=5,714#, ISIP=2,511#, FG=.70, PUMP'D 2078 BBLs SLK WTR W/ 30,712# 30/50 MESH TOTAL PROP PUMP'D, ISIP=3,033#, FG=.75, AR=50.4, AP=5,402#, MR=50.9, MP=6,340#, NPI=522#, 22/24 92% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,461', PERF LOWER MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #2] WHP=1,654#, BRK DN PERFS=3,912#, @=4.9 BPM, INJ RT=42.3, INJ PSI=5,850#, ISIP=2,751#, FG=.73, PUMP'D 1043 BBLs SLK WTR W/ 20,029# 30/50 MESH TOTAL PROP PUMP'D, ISIP=3,244#, FG=.79, AR=48.3, AP=6,159#, MR=50.7, MP=6,497#, NPI=493#, 17/24 71% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,196', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #3] WHP=2,131#, BRK DN PERFS=3,984#, @=4.9 BPM, INJ RT=48.8, INJ PSI=5,711#, ISIP=2,935#, FG=.76, PUMP'D 829 BBLs SLK WTR W/15,284 # 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,993#, FG=.77, AR=50.5, AP=5,677#, MR=50.8, MP=5,935#, NPI=58#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,850', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SWFN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011	Spud Date: 4/15/2011
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/22/2011	End Date: 8/2/2011
Active Datum: RKB @5,119.01ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/26/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, HIGH PRESSURE & WIRELINE
	7:00 - 7:00	0.00	COMP	36	E	P		FRAC STG #4] WHP=1,642#, BRK DN PERFS=3,153#, @=4.7 BPM, INJ RT=50.7, INJ PSI=4,693#, ISIP=2,250#, FG=.70, PUMP'D 801 BBLS SLK WTR W/ 14,686# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,692#, FG=.75, AR=50.6, AP=4,872#, MR=52, MP=5,458#, NPI=442#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,582', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #5] WHP=1,483#, BRK DN PERFS=2,566#, @=4.5 BPM, INJ RT=50.5, INJ PSI=5,034#, ISIP=1,924#, FG=.67, PUMP'D 1,045 BBLS SLK WTR W/ 21,091# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,692#, FG=.75, AR=50.6, AP=4,622#, MR=51, MP=5,137#, NPI=627#, 21/24 89% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,260', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #6] WHP=1,665#, BRK DN PERFS=2,402#, @=4.9 BPM, INJ RT=50.7, INJ PSI=4,351#, ISIP=1,844#, FG=.67, PUMP'D 1,201 BBLS SLK WTR W/ 24,834# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,375#, FG=.73, AR=50.9, AP=4,223#, MR=51.1, MP=4,709#, NPI=531# 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,892', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW, [MISSFIRE TOP GUN DID NOT SHOOT POOH FIX PROBLEM RUN BACK IN HOLE.] SWFN. HSM, FRACING
7/27/2011	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011	Spud Date: 4/15/2011
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/22/2011	End Date: 8/2/2011
Active Datum: RKB @5,119.01ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36	E	P		<p>FRAC STG #7] WHP=981#, BRK DN PERFS=2,887#, @=4.6 BPM, INJ RT=50.1, INJ PSI=5,727#, ISIP=2,102#, FG=.71, PUMP'D 1,363 BBLS SLK WTR W/ 28,224# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,601#, FG=.77, AR=50.3, AP=5,492#, MR=50.6, MP=5,893#, NPI=499#, 18/24 75% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,676', PERF MESAVERDE / WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=1,802#, BRK DN PERFS=2,792#, @=4 BPM, INJ RT=45.6, INJ PSI=5,500#, ISIP=2,057#, FG=.72, PUMP'D 644 BBLS SLK WTR W/ 17,119# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,593#, FG=.78, AR=48.3, AP=5,492#, MR=50.2, MP=6,238#, NPI=536#, 16/24 68%7,436 CALC PERFS OPEN.</p> <p>P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=7,436'</p> <p>9,005 TOTAL BBLS PUMP'D 171,979# TOTAL SAND PUMP'D 781 GALS SCALE INHIB 153 GALS BIO</p>
8/1/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, PU TBG
	7:15 - 17:00	9.75	COMP	31	I	P		<p>MIRU, SPOT EQUIP, ND WH, NU BOP, RU FLOOR & TBG EQUIP, SPOT TBG TRAILER, PU 3 7/8" BIT, POBS, XN SN & 2 3/8" TBG TO 7,420', RU POWER SWIVEL, FILL TBG BREAK CIRC, PRESS TEST BOP TO 3,000 PSI FOR 15 MIN, LOST 0 PSI, START DRLG PLUGS, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>C/O 30' SAND, TAG 1ST PLUG @ 7,450' DRL PLUG IN 9 MIN. 600 PSI INCREASE RIH, CSG PRESS 50 PSI.</p> <p>C/O 30' SAND, TAG 2ND PLUG @ 7,680' DRL PLUG IN 8 MIN. 300 PSI INCREASE RIH, CSG PRESS 75 PSI.</p> <p>C/O 70' SAND, TAG 3RD PLUG @ 7,892' DRL PLUG IN 10 MIN. 350 PSI INCREASE RIH, CSG PRESS 100 PSI.</p> <p>LET WELL CLEAN UP FOR 20 MIN, D/O REMAINING PLUGS IN AM, SWI, SDFN.</p> <p>CALLED CDC TALKED TO SONNY FOR TURN ON TOMORROW.</p>
8/2/2011	7:00 - 7:15	0.25	COMP	48		P		<p>HSM, SLIPS, TRIPS & FALLS, PICKING POWER SWIVEL UP & DOWN.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011		Spud Date: 4/15/2011	
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/22/2011		End Date: 8/2/2011	
Active Datum: RKB @5,119.01ft (above Mean Sea Level)			UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	44	C	P		<p>SICP 1,400 PSI, OPEN WELL HAD LITTLE PUFF OF GAS THEN MOSTLY STRAIGHT WATER, D/O REMAINING PLUGS, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>C/O 35' SAND, TAG 4TH PLUG @ 8,266' DRL PLUG IN 8 MIN. 500 PSI INCREASE RIH, CSG PRESS 250 PSI.</p> <p>C/O 30' SAND, TAG 5TH PLUG @ 8,582' DRL PLUG IN 11 MIN. 300 PSI INCREASE RIH, CSG PRESS 450 PSI.</p> <p>C/O 45' SAND, TAG 6TH PLUG @ 8,856' DRL PLUG IN 10 MIN. 400 PSI INCREASE RIH, CSG PRESS 450 PSI.</p> <p>C/O 30' SAND, TAG 7TH PLUG @ 9,196' DRL PLUG IN 9 MIN. 500 PSI INCREASE RIH, CSG PRESS 500 PSI.</p> <p>C/O 30' SAND, TAG 8TH PLUG @ 9,461' DRL PLUG IN 12 MIN. 500 PSI INCREASE RIH, CSG PRESS 500 PSI.</p> <p>PBTD @ 9,832', BTM PERF @ 9,750', RIH TAG @ 9,775', P/U POWER SWIVEL, C/O FROM 9,775' TO 9,832' PBTD, 82' PAST BTM PERF W/ 310 JTS 2 3/8" L-80 TBG, LD 20 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 290 JTS 2 3/8" L-80, EOT 9,198.21'.</p> <p>RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 3,000 PSI, LET BIT FALL FOR 20 MIN.</p> <p>TURN OVER TO FLOW BACK CREW, RD & MOVE TO NEXT WELL ON PAD.</p> <p>KB= 14' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 315 JTS 290 JTS 2 3/8" L-80 = 9,181.18' TBG USED 290 JTS POBS= 2.20' TBG RETURNED 25 JTS EOT @ 9,198.21'</p> <p>TWTR= 8,864 BBLS TWR= 2,000 BBLS TWLTR= 6,864 BBLS CALLED CDC TALKED TO SONNY WELL TURNED TO SALES @ 1400 HR ON 8/2/11 - 1225 MCFD, 1920 BWPD, CP 2700#, FTP 2300#, CK 20/64"</p>
	14:00 - 14:00	0.00	PROD	50				

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011		Spud Date: 4/15/2011	
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/22/2011		End Date: 8/2/2011	
Active Datum: RKB @5,119.01ft (above Mean Sea Level)			UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/3/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3550#, TP 2600#, 20/64" CK, 0 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 2630 BBLS LEFT TO RECOVER: 6375
8/4/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3300#, TP 2250#, 20/64" CK, 42 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3713 BBLS LEFT TO RECOVER: 5292
8/5/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3050#, TP 2050#, 20/64" CK, 35 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 4632 BBLS LEFT TO RECOVER: 4373
8/6/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 1900#, 20/64" CK, 28 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5364 BBLS LEFT TO RECOVER: 3641

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☒ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER AMENDED		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME UTU63047A
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217		8. WELL NAME and NUMBER: NBU 921-35C4CS
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SENW 1686 FNL 1699 FWL S35,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: NENW 1170 FNL 2134 FWL S35, T9S, R21E AT TOTAL DEPTH: NENW 1179 FNL 2159 FWL S35, T9S, R21E		9. API NUMBER: 4304751351
		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 35 9S 21E S
		12. COUNTY UINTAH
		13. STATE UTAH

14. DATE SPURRED: 4/8/2011	15. DATE T.D. REACHED: 6/1/2011	16. DATE COMPLETED: 8/2/2011	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5105 GL
18. TOTAL DEPTH: MD 9,905 TVD 9,817	19. PLUG BACK T.D.: MD 9,834 TVD 9,746	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) RCBL-CHI TRIPLE COMBO-RMTE			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,626		650		0	
7 7/8"	4 1/2" I-80	11.6#		9,437		1,510		390	
7 7/8"	4 1/2" P110	11.6#	9,437	9,879					

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,198							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	7,486	7,488		
(B) MESAVERDE	7,558	9,750		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,486 7,488	0.36	8	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
7,558 9,750	0.36	184	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7486 - 9750	PUMP 9005 BBLS SLICK H2O & 171,979 LBS 30/50 OTTAWA SAND
	NEW REVISED COMPLETION CHRONO ATTACHED

29. ENCLOSED ATTACHMENTS:

- | | | | |
|---|--|---------------------------------------|--|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT | <input checked="" type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS | <input type="checkbox"/> OTHER: _____ | |

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/2/2011	TEST DATE: 8/3/2011	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,637	WATER – BBL: 1,083	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,863	CSG. PRESS. 2,523	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,607				
BIRD'S NEST	1,874				
MAHOGANY	2,429				
WASATCH	4,884	7,543			
MESAVERDE	7,543	9,905	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 3/4" bit. The remainder of surface hole was drilled with an 11" bit. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 10/24/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-35C4CS

9. API NUMBER:
4304751351

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
SENW 35 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:
P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:
(720) 929-6100

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: SENW 1686 FNL 1699 FWL S35, T9S, R21E

AT TOP PRODUCING INTERVAL REPORTED BELOW: NENW 1170 FNL 2134 FWL S35, T9S, R21E

AT TOTAL DEPTH: NENW 1179 FNL 2159 FWL S35, T9S, R21E

14. DATE SPUDDED: 4/8/2011

15. DATE T.D. REACHED: 6/1/2011

16. DATE COMPLETED: 8/2/2011

ABANDONED ☐

READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
5105 GL

18. TOTAL DEPTH: MD 9,905
TVD 9,817

19. PLUG BACK T.D.: MD 9,834
TVD 9,746

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

✓ RCBL-CHI TRIPLE COMBO-RMTE

23.

WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)

WAS DST RUN? NO ☒ YES ☐ (Submit report)

DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,626		650		0	
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25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,198							

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INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,486 7,488	0.36	8	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
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			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7486 - 9750	PUMP 8864 BBLs SLICK H2O & 171,979 LBS SAND

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

☐ GEOLOGIC REPORT
☐ CORE ANALYSIS

☐ DST REPORT
☐ OTHER: _____

☒ DIRECTIONAL SURVEY

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/2/2011		TEST DATE: 8/3/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,637	WATER – BBL: 1,083	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,863	CSG. PRESS. 2,523	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,637	WATER – BBL: 1,083	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

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MESAVERDE	7,543	9,905	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 ¼" bit. The remainder of surface hole was drilled with an 11" bit. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 9/2/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
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- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

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1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]			Spud Conductor: 4/8/2011				Spud Date: 4/15/2011	
Project: UTAH-UINTAH			Site: NBU 921-35F2 PAD				Rig Name No: ENSIGN 139/139, PROPETRO 11/11	
Event: DRILLING			Start Date: 3/29/2011				End Date: 6/3/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)			UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/15/2011	0:00 - 0:30	0.50	MIRU	01	C	P		MOVE RIG IN OFF THE NBU 921-35E2AS
	0:30 - 1:00	0.50	MIRU	01	B	P		RIG UP PREPARE TO SPUD SURF. HOLE
	1:00 - 1:30	0.50	DRLSUR	06	A	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8014 . 7/8 LOBE .17 RPM. M/U 12.25" Q507 SN 7133231 3RD RUN, W/ 7-18'S. INSTALL RUBBER
	1:30 - 3:00	1.50	DRLSUR	02	B	P		SPUD SURFACE 04/15/2011 @ 01:30 HRS. DRILL 12.25" SURFACE HOLE F/40'-210' (170' @ 113'/HR)
	3:00 - 5:00	2.00	DRLSUR	06	A	P		PSI ON/ OFF 690/410, UP/ DOWN/ ROT 27/22/25. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
	5:00 - 15:00	10.00	DRLSUR	02	D	P		TOH,L/D 12 1/4" SURF. BIT,M/U Q506 11" SURF. BIT,P/U DIR. TOOLS & SCRIBE,TIH T/210'
	15:00 - 15:30	0.50	DRLSUR	07	A	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-1070' (190' @ 86'/HR) PSI ON/ OFF 1300/1070, UP/
	15:30 - 0:00	8.50	DRLSUR	02	D	P		DOWN/ ROT 59/51/53 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT
4/16/2011	0:00 - 5:30	5.50	DRLSUR	02	D	P		SERVICE RIG
	5:30 - 11:00	5.50	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/1070'-1820' (750' @ 88'/HR) PSI ON/ OFF 1620/1360, UP/
	11:00 - 13:00	2.00	DRLSUR	05	C	P		DOWN/ ROT 72/52/61 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT
	13:00 - 17:00	4.00	DRLSUR	06	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/1820'-2300' (480' @ 87'/HR) PSI ON/ OFF 1670/1380, UP/
	17:00 - 18:00	1.00	CSG	12	A	P		DOWN/ ROT 82/56/69 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT
	18:00 - 20:00	2.00	CSG	12	C	P		DRILL/ SLIDE 11" SURFACE HOLE F/2300'-2650' (350' @ 64'/HR) PSI ON/ OFF 1700/1530, UP/
	20:00 - 22:00	2.00	ALL	08	A	X		DOWN/ ROT 83/63/70 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT(TD SURF.11" DIR. SURF. HOLE)
	22:00 - 23:00	1.00	CSG	12	C	P		CIRC & COND HOLE F/L/D & 8 5/8" 28# SURF. CSG RUN
	23:00 - 0:00	1.00	CSG	12	A	P		L/D DRILL STRING,11" BHA & DIR TOOLS
								R/U T/RUN 8 5/8" 28# SURF. CSG
							HOLD SAFTEY MEETING,RUN FLOAT SHOE ,SHOE JNT,BAFFLE & 40 JNTS 8 5/8" 28# LT&C SURF. CSG	
							RETURN HYDRAULIC HOSE ON TOP HEAD HUNG UP IN DERRICK & PULLED INTO,WAIT ON NEW HYDRAULIC HOSE FROM SHOP,REPLACE HYDRAULIC HOSE(CIRC 8 5/8" 28 # SURF CSG DURING REPAIR TIME)	
							CONT T/RUN THE LAST 19 JNTS 8 5/8" 28# LT&C SURF. CSG W/THE SHOE SET@ 2616' & THE BAFFLE @ 2570'	
							RUN 200' 1" PIPE DOWN ANNULUS,R/U PRO PETRO CEMENTING EQUIP	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011		Spud Date: 4/15/2011	
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD			Rig Name No: ENSIGN 139/139, PROPETRO 11/11
Event: DRILLING		Start Date: 3/29/2011		End Date: 6/3/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)			UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/17/2011	0:00 - 1:00	1.00	CSG	12	E	P		HOLD SAFETY MEETING. PSI TEST TO 2000 PSI. PUMP 85 BBLS OF 8.4# H2O AHEAD. FULL CIRC. PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. FULL CIRC. PUMP 200 SX(136.1 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 200 SX (41 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4#/SK OF FLOCELE). DROP PLUG ON FLY AND DISPLACE W/159 BBLS OF 8.4# H2O.FULL CIRC. THRU OUT JOB,FINAL LIFT PRESS. 570 PSI, BUMP PLUG AND HOLD 1070 PSI FOR 5 MIN. FLOAT HELD,28 BBLS LEAD CEMENT TO SURF.,CEMENT FELL BACK
	1:00 - 1:30	0.50	CSG	12	F	P		TOP OUT THRU 1" PIPE W/125 SKS 15.8 PPG CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE,NO CEMENT TO SURF.
	1:30 - 3:00	1.50	CSG	13	A	P		WAIT ON CEMENT
	3:00 - 3:30	0.50	CSG	12	F	P		TOP OUT W/125 SKS 15.8 PPG CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE, CEMENT TO SURF.(RELEASE RIG @ 03:30 04/17/2011)
	3:30 - 3:30	0.00	CSG					CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 28
								SPUD DATE/TIME: 04/15/2011 01:30
								SURFACE HOLE: Surface From depth: 40' Surface To depth: 2650' Total SURFACE hours: 31.00 Surface Casing size: 8 5/8" # of casing joints ran: 59 Casing set MD: 2616' # sx of cement: 200/200/250 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: Describe cement issues: NONE Describe hole issues: NONE
5/26/2011	23:00 - 0:00	1.00	MIRU	01	C	P		R/D & SKID ON TO NBU-921-35C4CS
5/27/2011	0:00 - 1:00	1.00	DRLPRO	14	A	P		N/U B.O.P'S & FLARE LINES
	1:00 - 2:30	1.50	DRLPRO	09	A	P		CUT DRILL LINE
	2:30 - 6:00	3.50	DRLPRO	15	A	P		TEST B.O.P'S - BLINDS - PIPE - 2" - 4" VALVES - HCR - CHOKE MAINFOLD 250 LOW - 5000 HIGH - ANNULAR 250 LOW - 2500 HIGH & CASING TO 1500 PSI
	6:00 - 7:00	1.00	DRLPRO	06	A	P		LOAD RACKS W/ BHA & DONE PRE SPUD INSPECTION
	7:00 - 11:30	4.50	DRLPRO	06	A	P		P/U DIR TOOLS & T.I.H
	11:30 - 12:30	1.00	DRLPRO	07	B	P		LEVEL RIG OVER CENTER HOLE
	12:30 - 14:30	2.00	DRLPRO	06	A	P		CONT. T.I.H & TAG CEMENT @ 2502
	14:30 - 16:00	1.50	DRLPRO	02	F	P		DRILL SHOE TRACK
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DIR DRILL F/ 2660 TO 3665 = 1005',AVG 125.6 ,WOB 15/18,RPM 42/151,STKS 110,GPM 540,PSI 1100/1400,TORG 3/7K,SLIDE 8% /100', - MW 8.4 VIS 26,CIRC RES PIT
5/28/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DIR DRILL F/ 3665 TO 5020 = 1355',AVG 123.1 ,WOB 15/18,RPM 42/151,STKS 110,GPM 540,PSI 1400/1750 ,TORG 5/8K,SLIDE 7% /95', - MW 8.4 VIS 26,CIRC RES PIT

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011		Spud Date: 4/15/2011	
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD			Rig Name No: ENSIGN 139/139, PROPETRO 11/11
Event: DRILLING		Start Date: 3/29/2011		End Date: 6/3/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/29/2011	11:00 - 11:30	0.50	DRLPRO	07	A	P		SER RIG
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DIR DRILL F/ 5020 TO 6504 = 1484',AVG 118.72 ,WOB 15/18,RPM 42/151,STKS 110,GPM 540,PSI 1400/1750 ,TORG 5/8K,SLIDE 0% /0', - MW 8.4 VIS 26,CIRC RES PIT
	0:00 - 11:00	11.00	DRLPRO	02	D	P		DIR DRILL F/ 6504 TO 7238 = 734',AVG 66.7 ,WOB 15/18,RPM 42/151,STKS 110,GPM 540,PSI 1400/1750 ,TORG 5/8K,SLIDE 1% /10', - MW 8.4 VIS 26,CIRC RES PIT
	11:00 - 11:30	0.50	DRLPRO	07	A	P		SER RIG
5/30/2011	11:30 - 0:00	12.50	DRLPRO	02	D	P		DIR DRILL F/ 7238 TO 7864 = 626',AVG 50.08 ,WOB 15/18,RPM 42/151,STKS 105,GPM 514 ,PSI 11750/2050 ,TORG 5/8K,SLIDE 0% /0', - MW 8.4 VIS 26,CIRC RES PIT & MUD UP SYSTEM DO TO LOSES - 36 VIS - MW 10.4 LCM 10%
	0:00 - 10:30	10.50	DRLPRO	02	D	P		DIR DRILL F/ 7864 TO 8370 = 506',AVG 48.1 ,WOB 15/18,RPM 42/144,STKS 105,GPM 514 ,PSI 1850/2150 ,TORG 5/8K,SLIDE 6% /30', MW 11.3 VIS 39 LCM 15%
	10:30 - 11:00	0.50	DRLPRO	07	A	P		SER RIG
	11:00 - 0:00	13.00	DRLPRO	02	D	P		DIR DRILL F/ 8370 TO 8980 = 610',AVG 46.9 ,WOB 15/18,RPM 42/144,STKS 95,GPM 465 ,PSI 2150/2450 ,TORG 5/8K,SLIDE 6% /36', MW 11.8 VIS 39 LCM 20%
5/31/2011	0:00 - 7:00	7.00	DRLPRO	02	D	P		DIR DRILL F/ 8980 TO 9185 = 205',AVG 29.2 ,WOB 18/23,RPM 42/130,STKS 95,GPM 465 ,PSI 2150/2450 ,TORG 5/8K,SLIDE 0% /0', MW 11.9 VIS 45 LCM 20%
	7:00 - 17:00	10.00	DRLPRO	06	A	P		T.F.N.B - PULL ONE STANDS W/ PUMP & ROT - PULL 3 MORE STANDS (NO PUMP OR ROT) & OVER 45/50 K - CONT T.O.H - BACKREAM SPOTS @ 5600 TO 5620 - 4874 TO 4725 - 4627 TO 4561 & 4380 TO 4289 CONT T.O.H L/D MOTOR & BIT P/U MOTOR & BIT & T.I.H
	17:00 - 19:30	2.50	DRLPRO	06	A	P		LEVEL DERRICK OVER CENTER HOLE
	19:30 - 20:30	1.00	DRLPRO	07	B	P		CONT T.I.H & FILL PIPE @ SHOE & REAM OUT TIGHT SPOT @ 5600 TO 5620 - CONT T.I.H
6/1/2011	20:30 - 0:00	3.50	DRLPRO	06	A	P		CONT T.I.H & REAM OUT TIGHT SPOT @ 8842 TO 8870 - T.I.H & WASH TO BTM (NO FILL)
	0:00 - 2:00	2.00	DRLPRO	06	A	P		DIR DRILL F/ 9185 TO 9734 = 549',AVG 54.9/ ,WOB 18/23,RPM 42/71,STKS 90,GPM 441 ,PSI 2150/2450 ,TORG 5/8K,SLIDE 2% /12', MW 11.9 VIS 45 LCM 18%
	2:00 - 12:00	10.00	DRLPRO	02	D	P		SER RIG
	12:00 - 12:30	0.50	DRLPRO	07	A	P		DIR DRILL F/ 9734 TO 9905 = 171',AVG 48.8/ ,WOB 18/23,RPM 42/71,STKS 90,GPM 441 ,PSI 2150/2450 ,TORG 5/8K,SLIDE 0% /0', MW 12.2- VIS 45 LCM 19%
6/2/2011	12:30 - 16:00	3.50	DRLPRO	02	D	P		CIRC BTM UP & LOST CIRC 1/2 RETURNS & RAISE LCM TO 28% & LOST 100 BBLS TOTAL WIPER TRIP 15 STANDS
	16:00 - 18:00	2.00	DRLPRO	05	A	P		CIRC BTM UP- HAD 50 BBL GAIN SHUT IN WELL CIRC OUT GAS - MUD CUT F/ 12.3 TO 11.1 - & RAISED MUD WT TO 12.5 & LCM 30%
	18:00 - 20:00	2.00	DRLPRO	06	E	P		CIRC OUT GAS & RAISE MW F/ 12.5 TO 12.8 & LCM 32%
	20:00 - 0:00	4.00	DRLPRO	05	A	P		PULL 10 STANDS & MONITOR WELL & PUMP DRY JOB & CONT.T.O.H & L/D MOTOR & BIT
	0:00 - 4:00	4.00	DRLPRO	05	A	P		PULL WEAR BUSHING
	4:00 - 14:00	10.00	DRLPRO	06	D	P		
	14:00 - 14:30	0.50	DRLPRO	14	B	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011		Spud Date: 4/15/2011	
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD			Rig Name No: ENSIGN 139/139, PROPETRO 11/11
Event: DRILLING		Start Date: 3/29/2011		End Date: 6/3/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/3/2011	14:30 - 0:00	9.50	DRLPRO	12	C	P		HELD S/M & R/U FRANKS CSG CREW & RUN 4.5 PROD CSG - 235 JTS PLUS 2 MARKERS - SHOE SET @ 9879 F/C SET @ 9836
	0:00 - 1:00	1.00	DRLPRO	12	C	P		CONT RUNNING 4.5 PROD CASING
	1:00 - 2:00	1.00	DRLPRO	05	A	P		CIRC BTM UP
	2:00 - 4:30	2.50	DRLPRO	12	E	P		HELD S/M & R/U BJ SER & TESTED LINES 5,000 PSI & PUMP 40 BBLS SPACER,510 SKS LEAD #12.1 2.17 YLD,1000 SKS TAIL #14.3 - 1.31 YLD ,DISPLACE 153 BBLS CLAYFIX,FINAL LIFT PRESSURE ???? PSI,BUMP PLUG 500 OVER,FLOATS HELD & GOT BACK TO PIT 10 BBLS OF WATER
	4:30 - 10:00	5.50	DRLPRO	14	A	P		N/D B.O.P'S & SET C-22 SLIPS ON CSG @ 100 K, ,RUFF-CUT 4 1/2 CSG & CLEAN OUT MUD TANKS & RELEASED RIG ON 6/3/2011 @ 10:00 HRS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011	Spud Date: 4/15/2011
Project: UTAH-UINTAH	Site: NBU 921-35F2 PAD		Rig Name No: ENSIGN 139/139, PROPETRO 11/11
Event: DRILLING	Start Date: 3/29/2011	End Date: 6/3/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 10:00	0.00	DRLPRO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 4/15/2011 1:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 31.00 Surface Casing size: 8 5/8 # of casing joints ran: 59 Casing set MD: 2,616.0 # sx of cement: 650 Cement blend (ppg): 15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: Describe cement issues: NA Describe hole issues: NA</p> <p>PRODUCTION: Rig Move/Skid start date/time: 5/26/2011 23:00 Rig Move/Skid finish date/time: 5/27/2011 0:00 Total MOVE hours: 1.0 Prod Rig Spud date/time: 5/27/2011 16:00 Rig Release date/time: 6/3/2011 10:00 Total SPUD to RR hours: 162.0 Planned depth MD 9,880 Planned depth TVD 9,794 Actual MD: 9,905 Actual TVD: 9,819 Open Wells \$ AFE \$: Open wells \$/ft:</p> <p>PRODUCTION HOLE: Prod. From depth: 2,660 Prod. To depth: 9,905 Total PROD hours: 99 Log Depth: 0 Float Collar Top Depth: 9848 Production Casing size: 4 1/2 # of casing joints ran: 237 Casing set MD: 9,891.0 Stage 1 # sx of cement: 510 LEAD 1000 TAIL Cement density (ppg): 12.2/14.3 Cement yield (ft3/sk): 2.23/1.31 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : 0/4500 Describe cement issues: 5 BBLS TO SURFACE Describe hole issues:</p> <p>DIRECTIONAL INFO: KOP: 334 Max angle: 17.15 Departure: 684.43</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011		Spud Date: 4/15/2011				
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD		Rig Name No: ENSIGN 139/139, PROPETRO 11/11				
Event: DRILLING		Start Date: 3/29/2011		End Date: 6/3/2011				
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
Max dogleg MD:								2.70

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-35C4CS [YELLOW]		
Common Name	NBU 921-35C4CS		
Well Name	NBU 921-35C4CS	Wellbore No.	OH
Report No.	1	Report Date	7/18/2011
Project	UTAH-UINTAH	Site	NBU 921-35F2 PAD
Rig Name/No.		Event	COMPLETION
Start Date	7/18/2011	End Date	8/2/2011
Spud Date	4/15/2011	Active Datum	RKB @5,119.00ft (above Mean Sea Level)
UWI	SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	7,486.0 (ft)-9,750.0 (ft)	Start Date/Time	7/25/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	37	End Date/Time	7/25/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	192	Net Perforation Interval	56.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.43 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			7,486.0	7,488.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

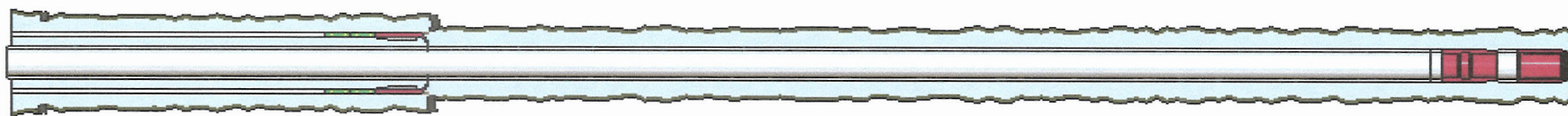
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AMMESAVERDE/				7,558.0	7,560.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,644.0	7,646.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,727.0	7,729.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,785.0	7,787.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,860.0	7,862.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,008.0	8,009.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,050.0	8,051.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,078.0	8,079.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,101.0	8,102.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,169.0	8,170.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,185.0	8,186.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,229.0	8,230.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,346.0	8,348.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,380.0	8,382.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,448.0	8,450.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,550.0	8,552.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,660.0	8,662.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,698.0	8,700.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,748.0	8,750.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,818.0	8,820.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,980.0	8,981.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AMMESAVERDE/				9,022.0	9,023.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,043.0	9,044.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,110.0	9,111.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,121.0	9,122.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,132.0	9,133.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,165.0	9,166.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,240.0	9,241.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,257.0	9,258.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,303.0	9,305.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,336.0	9,338.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,430.0	9,431.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,595.0	9,596.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,638.0	9,640.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,671.0	9,673.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,748.0	9,750.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]			Spud Conductor: 4/8/2011			Spud Date: 4/15/2011		
Project: UTAH-UINTAH			Site: NBU 921-35F2 PAD			Rig Name No: GWS 1/1		
Event: COMPLETION			Start Date: 7/22/2011			End Date: 8/2/2011		
Active Datum: RKB @5,119.00ft (above Mean Sea Level)			UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/22/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, PRESSURE TESTING
	7:15 - 15:00	7.75	COMP	47	B	P		MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 1000# W/ 6# LOSS IN 15 MIN. BUMP PRESSURE UP TO 3500# W/ 43# LOSS IN 15 MIN. BUMP PRESSURE UP TO 7000# W/ 112# LOSS IN 30 MIN, BUMP BACK UP TO 7000# W/ 105# LOSS IN 30 MIN. [GOOD TEST]
7/25/2011	7:00 - 7:45	0.75	COMP	48		P		MIRU CASED HOLE SOLUTIONS 1ST SHOOT MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE, AS PERSAY IN DESIGN. SWIFN.
	7:45 - 7:45	0.00	COMP	36	E	P		HSM, PREFRAC DESIGN. PRESSURE TEST POPOFFS FRAC STG #1] WHP=1,845#, BRK DN PERFS=3,143#, @=4.3 BPM, INJ RT=50.4, INJ PSI=5,714#, ISIP=2,511#, FG=.70, PUMP'D 2078 BBLS SLK WTR W/ 30,712# 30/50 MESH TOTAL PROP PUMP'D, ISIP=3,033#, FG=.75, AR=50.4, AP=5,402#, MR=50.9, MP=6,340#, NPI=522#, 22/24 92% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,461', PERF LOWER MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #2] WHP=1,654#, BRK DN PERFS=3,912#, @=4.9 BPM, INJ RT=42.3, INJ PSI=5,850#, ISIP=2,751#, FG=.73, PUMP'D 902 BBLS SLK WTR W/ 20,029# 30/50 MESH TOTAL PROP PUMP'D, ISIP=3,244#, FG=.79, AR=48.3, AP=6,159#, MR=50.7, MP=6,497#, NPI=493#, 17/24 71% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,196', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #3] WHP=2,131#, BRK DN PERFS=3,984#, @=4.9 BPM, INJ RT=48.8, INJ PSI=5,711#, ISIP=2,935#, FG=.76, PUMP'D 829 BBLS SLK WTR W/15,284 # 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,993#, FG=.77, AR=50.5, AP=5,677#, MR=50.8, MP=5,935#, NPI=58#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,850', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SWIFN.
7/26/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, HIGH PRESSURE & WIRELINE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011		Spud Date: 4/15/2011	
Project: UTAH-UINTAH		Site: NBU 921-35F2 PAD			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/22/2011		End Date: 8/2/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)			UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 7:00	0.00	COMP	36	E	P		<p>FRAC STG #4] WHP=1,642#, BRK DN PERFS=3,153#, @=4.7 BPM, INJ RT=50.7, INJ PSI=4,693#, ISIP=2,250#, FG=.70, PUMP'D 801 BBLS SLK WTR W/ 14,686# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,692#, FG=.75, AR=50.6, AP=4,872#, MR=52, MP=5,458#, NPI=442#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,582', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #5] WHP=1,483#, BRK DN PERFS=2,566#, @=4.5 BPM, INJ RT=50.5, INJ PSI=5,034#, ISIP=1,924#, FG=.67, PUMP'D 1,046 BBLS SLK WTR W/ 21,091# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,692#, FG=.75, AR=50.6, AP=4,622#, MR=51, MP=5,137#, NPI=627#, 21/24 89% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,260', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP=1,665#, BRK DN PERFS=2,402#, @=4.9 BPM, INJ RT=50.7, INJ PSI=4,351#, ISIP=1,844#, FG=.67, PUMP'D 1,201 BBLS SLK WTR W/ 24,834# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,375#, FG=.73, AR=50.9, AP=4,223#, MR=51.1, MP=4,709#, NPI=531# 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,892', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW, [MISSFIRE TOP GUN DID NOT SHOOT POOH FIX PROBLEM RUN BACK IN HOLE.] SWIFN. HSM, FRACING</p>
7/27/2011	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011	Spud Date: 4/15/2011
Project: UTAH-UINTAH	Site: NBU 921-35F2 PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 7/22/2011	End Date: 8/2/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36	E	P		<p>FRAC STG #7] WHP=981#, BRK DN PERFS=2,887#, @=4.6 BPM, INJ RT=50.1, INJ PSI=5,727#, ISIP=2,102#, FG=.71, PUMP'D 1,363 BBLs SLK WTR W/ 28,224# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,601#, FG=.77, AR=50.3, AP=5,492#, MR=50.6, MP=5,893#, NPI=499#, 18/24 75% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,676', PERF MESAVERDE / WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=1,802#, BRK DN PERFS=2,792#, @=4 BPM, INJ RT=45.6, INJ PSI=5,500#, ISIP=2,057#, FG=.72, PUMP'D 644 BBLs SLK WTR W/ 17,119# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,593#, FG=.78, AR=48.3, AP=5,492#, MR=50.2, MP=6,238#, NPI=536#, 16/24 68%7,436 CALC PERFS OPEN.</p> <p>P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=7,436'</p> <p>8,864 TOTAL BBLs PUMP'D 171,979# TOTAL SAND PUMP'D 781 GALS SCALE INHIB 153 GALS BIO HSM, SLIPS, TRIPS & FALLS, PU TBG</p>
8/1/2011	7:00 - 7:15	0.25	COMP	48		P		<p>'MIRU, SPOT EQUIP, ND WH, NU BOP, RU FLOOR & TBG EQUIP, SPOT TBG TRAILER, PU 3 7/8" BIT, POBS, XN SN & 2 3/8" TBG TO 7,420', RU POWER SWIVEL, FILL TBG BREAK CIRC, PRESS TEST BOP TO 3,000 PSI FOR 15 MIN, LOST 0 PSI, START DRLG PLUGS, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>C/O 30' SAND, TAG 1ST PLUG @ 7,450' DRL PLUG IN 9 MIN. 600 PSI INCREASE RIH, CSG PRESS 50 PSI.</p> <p>C/O 30' SAND, TAG 2ND PLUG @ 7,680' DRL PLUG IN 8 MIN. 300 PSI INCREASE RIH, CSG PRESS 75 PSI.</p> <p>C/O 70' SAND, TAG 3RD PLUG @ 7,892' DRL PLUG IN 10 MIN. 350 PSI INCREASE RIH, CSG PRESS 100 PSI. LET WELL CLEAN UP FOR 20 MIN, D/O REMAINING PLUGS IN AM, SWI, SDFN.</p> <p>CALLED CDC TALKED TO SONNY FOR TURN ON TOMORROW.</p>
	7:15 - 17:00	9.75	COMP	31	I	P		
8/2/2011	7:00 - 7:15	0.25	COMP	48		P		<p>HSM, SLIPS, TRIPS & FALLS, PICKING POWER SWIVEL UP & DOWN.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]		Spud Conductor: 4/8/2011	Spud Date: 4/15/2011
Project: UTAH-UINTAH	Site: NBU 921-35F2 PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 7/22/2011	End Date: 8/2/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	44	C	P		<p>SICP 1,400 PSI, OPEN WELL HAD LITTLE PUFF OF GAS THEN MOSTLY STRAIGHT WATER, D/O REMAINING PLUGS, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>C/O 35' SAND, TAG 4TH PLUG @ 8,266' DRL PLUG IN 8 MIN. 500 PSI INCREASE RIH, CSG PRESS 250 PSI.</p> <p>C/O 30' SAND, TAG 5TH PLUG @ 8,582' DRL PLUG IN 11 MIN. 300 PSI INCREASE RIH, CSG PRESS 450 PSI.</p> <p>C/O 45' SAND, TAG 6TH PLUG @ 8,856' DRL PLUG IN 10 MIN. 400 PSI INCREASE RIH, CSG PRESS 450 PSI.</p> <p>C/O 30' SAND, TAG 7TH PLUG @ 9,196' DRL PLUG IN 9 MIN. 500 PSI INCREASE RIH, CSG PRESS 500 PSI.</p> <p>C/O 30' SAND, TAG 8TH PLUG @ 9,461' DRL PLUG IN 12 MIN. 500 PSI INCREASE RIH, CSG PRESS 500 PSI.</p> <p>PBTD @ 9,832', BTM PERF @ 9,750', RIH TAG @ 9,775', P/U POWER SWIVEL, C/O FROM 9,775' TO 9,832' PBTD, 82' PAST BTM PERF W/ 310 JTS 2 3/8" L-80 TBG, LD 20 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 290 JTS 2 3/8" L-80, EOT 9,198.21'.</p> <p>RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 3,000 PSI, LET BIT FALL FOR 20 MIN.</p> <p>TURN OVER TO FLOW BACK CREW, RD & MOVE TO NEXT WELL ON PAD.</p> <p>KB= 14' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 315 JTS 290 JTS 2 3/8" L-80 = 9,181.18' TBG USED 290 JTS POBS= 2.20' TBG RETURNED 25 JTS EOT @ 9,198.21'</p> <p>TWTR= 9,005 BBLS TWR= 2,000 BBLS TWLTR= 7,005 BBLS CALLED CDC TALKED TO SONNY WELL TURNED TO SALES @ 1400 HR ON 8/2/11 - 1225 MCFD, 1920 BWPD, CP 2700#, FTP 2300#, CK 20/64"</p> <p>7 AM FLBK REPORT: CP 3550#, TP 2600#, 20/64" CK, 0 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 2630 BBLS LEFT TO RECOVER: 6375</p> <p>7 AM FLBK REPORT: CP 3300#, TP 2250#, 20/64" CK, 42 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3713 BBLS LEFT TO RECOVER: 5292</p>
	14:00 - 14:00	0.00	PROD	50				
8/3/2011	7:00 -			33	A			
8/4/2011	7:00 -			33	A			

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35C4CS [YELLOW]			Spud Conductor: 4/8/2011			Spud Date: 4/15/2011		
Project: UTAH-UINTAH			Site: NBU 921-35F2 PAD				Rig Name No: GWS 1/1	
Event: COMPLETION			Start Date: 7/22/2011				End Date: 8/2/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)			UWI: SE/NW/0/9/S/21/E/35/0/0/26/PM/N/1686/W/0/1699/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/5/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3050#, TP 2050#, 20/64" CK, 35 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 4632 BBLS LEFT TO RECOVER: 4373
8/6/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 1900#, 20/64" CK, 28 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5364 BBLS LEFT TO RECOVER: 3641

WELL DETAILS: NBU 921-35C4CS

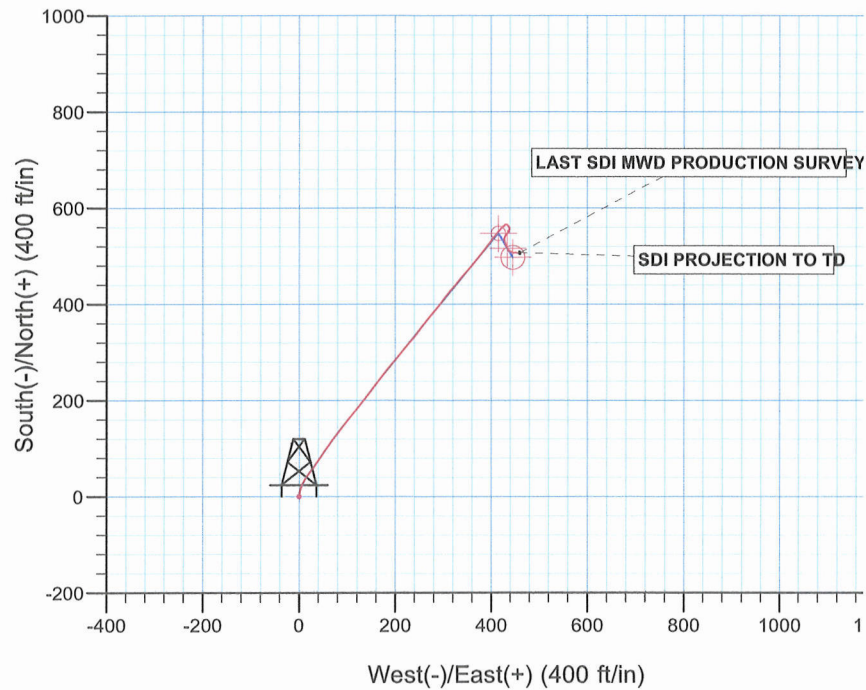
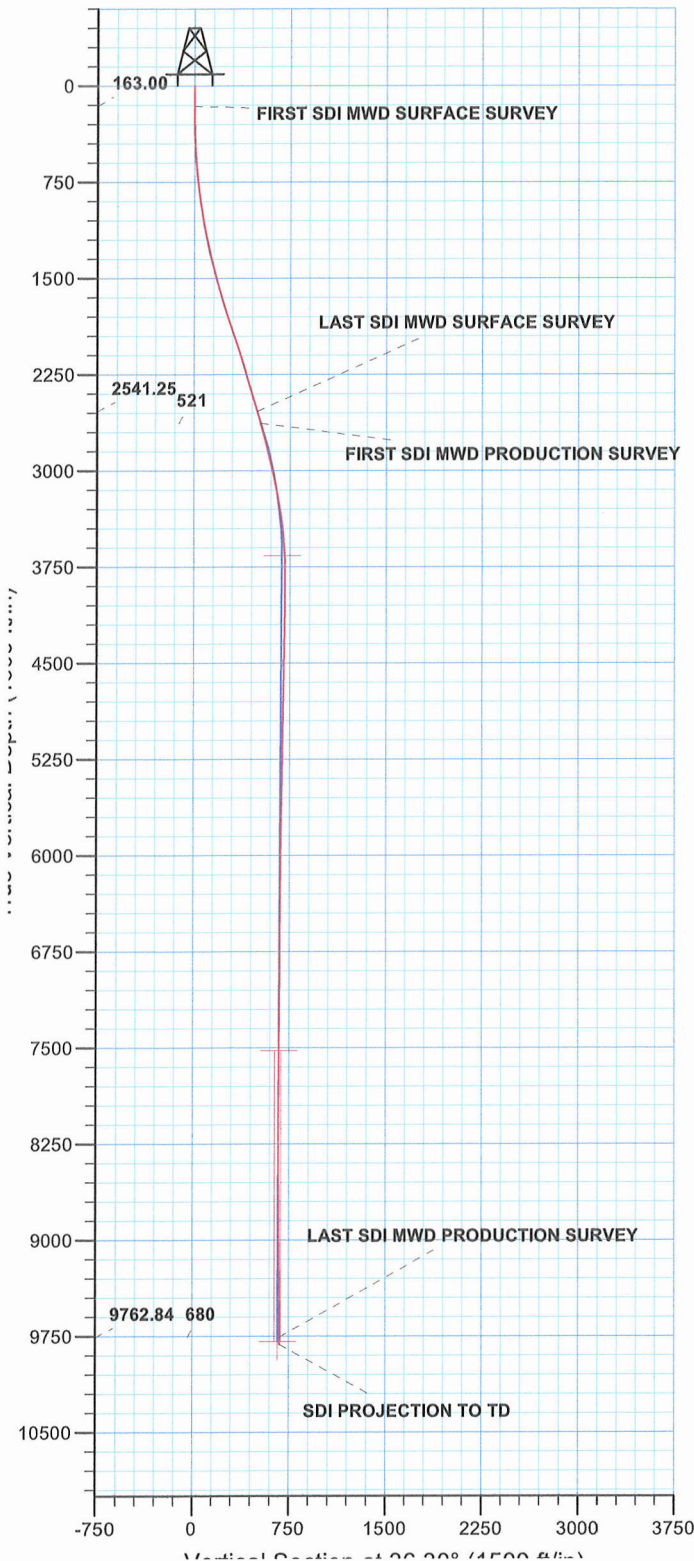
GL 5105' & KB 14' @ 5119.00ft (ENSGN 139)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14527724.03	2054497.65	39° 59' 42.655 N	109° 31' 17.688 W



Azimuths to True North
Magnetic North: 11.11°

Magnetic Field
Strength: 52341.7snT
Dip Angle: 65.86°
Date: 04/05/2011
Model: IGRF2010



PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SEC 35 T9S R21E
System Datum: Mean Sea Level

Design: OH (NBU 921-35C4CS/OH)

Created By: RobertScott Date: 15:28, June 10 2011



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-35F2 Pad
NBU 921-35C4CS**

OH

Design: OH

Survey Report - Geographic

10 June, 2011

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
Site:	NBU 921-35F2 Pad	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
Well:	NBU 921-35C4CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35F2 Pad, SEC 35 T9S R21E			
Site Position:		Northing:	14,527,718.98 usft	Latitude: 39° 59' 42.608 N
From:	Lat/Long	Easting:	2,054,478.12 usft	Longitude: 109° 31' 17.940 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.95 °

Well	NBU 921-35C4CS, 1686' FNL 1699' FWL			
Well Position	+N/-S 0.00 ft	Northing:	14,527,724.04 usft	Latitude: 39° 59' 42.655 N
	+E/-W 0.00 ft	Easting:	2,054,497.65 usft	Longitude: 109° 31' 17.688 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,105.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/05/2011	11.11	65.86	52,342

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	36.30	

Survey Program	Date 06/10/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
10.00	2,605.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,703.00	9,905.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
10.00	0.00	0.00	10.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
163.00	0.79	3.38	163.00	1.05	0.06	14,527,725.09	2,054,497.69	39° 59' 42.666 N	109° 31' 17.687 W
FIRST SDI MWD SURFACE SURVEY									
250.00	0.62	19.20	249.99	2.10	0.25	14,527,726.14	2,054,497.87	39° 59' 42.676 N	109° 31' 17.685 W
334.00	1.58	357.14	333.97	3.68	0.34	14,527,727.72	2,054,497.93	39° 59' 42.692 N	109° 31' 17.684 W
424.00	3.08	6.72	423.90	7.32	0.57	14,527,731.37	2,054,498.09	39° 59' 42.728 N	109° 31' 17.681 W
514.00	4.40	19.20	513.70	12.98	1.98	14,527,737.05	2,054,499.42	39° 59' 42.784 N	109° 31' 17.663 W
604.00	5.19	24.56	603.39	19.95	4.81	14,527,744.06	2,054,502.13	39° 59' 42.852 N	109° 31' 17.626 W
694.00	5.28	22.36	693.01	27.48	8.08	14,527,751.65	2,054,505.27	39° 59' 42.927 N	109° 31' 17.584 W
784.00	5.89	30.45	782.59	35.29	11.99	14,527,759.52	2,054,509.05	39° 59' 43.004 N	109° 31' 17.534 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35F2 Pad
Well: NBU 921-35C4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35C4CS
TVD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
MD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
874.00	6.95	35.72	872.02	43.69	17.51	14,527,768.01	2,054,514.43	39° 59' 43.087 N	109° 31' 17.463 W
964.00	8.79	36.86	961.17	53.62	24.82	14,527,778.06	2,054,521.57	39° 59' 43.185 N	109° 31' 17.369 W
1,054.00	9.94	34.84	1,049.97	65.49	33.38	14,527,790.08	2,054,529.94	39° 59' 43.303 N	109° 31' 17.259 W
1,144.00	11.17	34.40	1,138.45	79.06	42.74	14,527,803.80	2,054,539.07	39° 59' 43.437 N	109° 31' 17.139 W
1,234.00	12.57	32.73	1,226.52	94.49	52.96	14,527,819.40	2,054,549.04	39° 59' 43.589 N	109° 31' 17.007 W
1,324.00	13.28	37.21	1,314.24	110.97	64.51	14,527,836.06	2,054,560.31	39° 59' 43.752 N	109° 31' 16.859 W
1,414.00	13.63	36.33	1,401.77	127.74	77.04	14,527,853.04	2,054,572.56	39° 59' 43.918 N	109° 31' 16.698 W
1,504.00	14.68	38.53	1,489.04	145.21	90.43	14,527,870.72	2,054,585.66	39° 59' 44.090 N	109° 31' 16.526 W
1,594.00	15.65	38.97	1,575.90	163.57	105.17	14,527,889.33	2,054,600.09	39° 59' 44.272 N	109° 31' 16.336 W
1,684.00	16.97	37.65	1,662.28	183.40	120.83	14,527,909.42	2,054,615.42	39° 59' 44.468 N	109° 31' 16.135 W
1,774.00	17.76	37.65	1,748.18	204.67	137.24	14,527,930.96	2,054,631.47	39° 59' 44.678 N	109° 31' 15.924 W
1,864.00	17.85	38.44	1,833.86	226.34	154.20	14,527,952.91	2,054,648.07	39° 59' 44.892 N	109° 31' 15.706 W
1,954.00	18.29	37.57	1,919.43	248.34	171.38	14,527,975.19	2,054,664.89	39° 59' 45.110 N	109° 31' 15.486 W
2,044.00	18.64	39.67	2,004.79	270.61	189.17	14,527,997.74	2,054,682.31	39° 59' 45.330 N	109° 31' 15.257 W
2,134.00	18.99	40.20	2,089.98	292.86	207.81	14,528,020.30	2,054,700.57	39° 59' 45.550 N	109° 31' 15.017 W
2,224.00	17.15	38.62	2,175.54	314.42	225.54	14,528,042.15	2,054,717.94	39° 59' 45.763 N	109° 31' 14.790 W
2,314.00	16.18	38.44	2,261.76	334.60	241.62	14,528,062.60	2,054,733.69	39° 59' 45.963 N	109° 31' 14.583 W
2,404.00	15.83	38.18	2,348.27	354.08	257.01	14,528,082.33	2,054,748.74	39° 59' 46.155 N	109° 31' 14.385 W
2,494.00	15.92	39.23	2,434.84	373.29	272.40	14,528,101.79	2,054,763.82	39° 59' 46.345 N	109° 31' 14.187 W
2,605.00	17.15	38.80	2,541.25	397.83	292.28	14,528,126.66	2,054,783.29	39° 59' 46.588 N	109° 31' 13.932 W
LAST SDI MWD SURFACE SURVEY									
2,703.00	15.28	36.78	2,635.35	419.44	309.07	14,528,148.54	2,054,799.72	39° 59' 46.801 N	109° 31' 13.716 W
FIRST SDI MWD PRODUCTION SURVEY									
2,793.00	15.34	41.16	2,722.15	437.90	324.01	14,528,167.25	2,054,814.34	39° 59' 46.984 N	109° 31' 13.524 W
2,884.00	14.17	40.59	2,810.15	455.42	339.18	14,528,185.02	2,054,829.22	39° 59' 47.157 N	109° 31' 13.329 W
2,974.00	13.95	39.90	2,897.46	472.11	353.30	14,528,201.94	2,054,843.07	39° 59' 47.322 N	109° 31' 13.148 W
3,065.00	12.55	38.32	2,986.03	488.28	366.47	14,528,218.33	2,054,855.97	39° 59' 47.482 N	109° 31' 12.978 W
3,155.00	11.46	38.25	3,074.06	502.98	378.07	14,528,233.21	2,054,867.32	39° 59' 47.627 N	109° 31' 12.829 W
3,246.00	11.11	36.87	3,163.30	517.09	388.92	14,528,247.51	2,054,877.94	39° 59' 47.766 N	109° 31' 12.690 W
3,336.00	10.28	39.22	3,251.74	530.25	399.21	14,528,260.83	2,054,888.00	39° 59' 47.896 N	109° 31' 12.558 W
3,427.00	9.68	38.03	3,341.36	542.57	409.05	14,528,273.31	2,054,897.64	39° 59' 48.018 N	109° 31' 12.431 W
3,517.00	7.25	38.95	3,430.37	552.94	417.29	14,528,283.83	2,054,905.70	39° 59' 48.121 N	109° 31' 12.325 W
3,608.00	5.13	49.13	3,520.84	560.07	423.97	14,528,291.06	2,054,912.27	39° 59' 48.191 N	109° 31' 12.239 W
3,699.00	2.77	47.91	3,611.62	564.21	428.68	14,528,295.28	2,054,916.91	39° 59' 48.232 N	109° 31' 12.179 W
3,789.00	1.41	74.35	3,701.56	565.97	431.36	14,528,297.08	2,054,919.56	39° 59' 48.249 N	109° 31' 12.144 W
3,880.00	0.95	125.23	3,792.54	565.83	433.06	14,528,296.97	2,054,921.26	39° 59' 48.248 N	109° 31' 12.123 W
3,970.00	0.90	127.87	3,882.53	564.97	434.22	14,528,296.13	2,054,922.44	39° 59' 48.240 N	109° 31' 12.108 W
4,061.00	1.15	142.52	3,973.52	563.80	435.34	14,528,294.98	2,054,923.58	39° 59' 48.228 N	109° 31' 12.093 W
4,151.00	1.31	147.73	4,063.49	562.22	436.44	14,528,293.42	2,054,924.70	39° 59' 48.212 N	109° 31' 12.079 W
4,242.00	1.31	150.14	4,154.47	560.44	437.52	14,528,291.65	2,054,925.81	39° 59' 48.195 N	109° 31' 12.065 W
4,332.00	0.96	160.93	4,244.45	558.83	438.27	14,528,290.06	2,054,926.59	39° 59' 48.179 N	109° 31' 12.056 W
4,423.00	1.10	164.88	4,335.44	557.27	438.75	14,528,288.50	2,054,927.09	39° 59' 48.163 N	109° 31' 12.049 W
4,513.00	0.67	218.21	4,425.43	556.02	438.65	14,528,287.26	2,054,927.02	39° 59' 48.151 N	109° 31' 12.051 W
4,604.00	0.90	215.10	4,516.42	555.02	437.91	14,528,286.24	2,054,926.29	39° 59' 48.141 N	109° 31' 12.060 W
4,694.00	0.78	199.74	4,606.41	553.86	437.30	14,528,285.08	2,054,925.70	39° 59' 48.130 N	109° 31' 12.068 W
4,785.00	0.93	178.43	4,697.40	552.54	437.11	14,528,283.75	2,054,925.53	39° 59' 48.117 N	109° 31' 12.071 W
4,875.00	1.14	174.83	4,787.39	550.92	437.21	14,528,282.13	2,054,925.66	39° 59' 48.101 N	109° 31' 12.069 W
4,966.00	1.32	225.99	4,878.37	549.29	436.54	14,528,280.49	2,054,925.01	39° 59' 48.085 N	109° 31' 12.078 W
5,056.00	1.37	225.71	4,968.34	547.82	435.02	14,528,278.99	2,054,923.52	39° 59' 48.070 N	109° 31' 12.097 W
5,147.00	1.20	225.60	5,059.32	546.39	433.56	14,528,277.54	2,054,922.09	39° 59' 48.056 N	109° 31' 12.116 W
5,237.00	1.18	222.60	5,149.30	545.05	432.26	14,528,276.18	2,054,920.81	39° 59' 48.043 N	109° 31' 12.133 W
5,328.00	1.12	224.79	5,240.28	543.73	431.00	14,528,274.84	2,054,919.57	39° 59' 48.030 N	109° 31' 12.149 W
5,418.00	0.93	208.74	5,330.27	542.46	430.03	14,528,273.56	2,054,918.62	39° 59' 48.017 N	109° 31' 12.162 W
5,509.00	0.88	201.24	5,421.26	541.17	429.42	14,528,272.25	2,054,918.03	39° 59' 48.004 N	109° 31' 12.169 W
5,600.00	0.81	193.76	5,512.25	539.89	429.02	14,528,270.97	2,054,917.65	39° 59' 47.992 N	109° 31' 12.175 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35F2 Pad
Well: NBU 921-35C4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35C4CS
TVD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
MD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,690.00	0.66	219.78	5,602.24	538.87	428.53	14,528,269.94	2,054,917.18	39° 59' 47.982 N	109° 31' 12.181 W
5,781.00	0.91	206.81	5,693.23	537.83	427.87	14,528,268.89	2,054,916.54	39° 59' 47.971 N	109° 31' 12.189 W
5,871.00	0.79	190.60	5,783.22	536.58	427.43	14,528,267.63	2,054,916.12	39° 59' 47.959 N	109° 31' 12.195 W
5,962.00	0.72	180.62	5,874.21	535.39	427.31	14,528,266.44	2,054,916.02	39° 59' 47.947 N	109° 31' 12.196 W
6,052.00	0.59	173.80	5,964.21	534.36	427.36	14,528,265.41	2,054,916.08	39° 59' 47.937 N	109° 31' 12.196 W
6,143.00	0.59	149.89	6,055.20	533.49	427.64	14,528,264.55	2,054,916.38	39° 59' 47.928 N	109° 31' 12.192 W
6,233.00	0.86	161.97	6,145.20	532.45	428.08	14,528,263.51	2,054,916.84	39° 59' 47.918 N	109° 31' 12.187 W
6,324.00	0.87	156.62	6,236.18	531.17	428.57	14,528,262.24	2,054,917.35	39° 59' 47.905 N	109° 31' 12.180 W
6,414.00	1.16	161.14	6,326.17	529.68	429.14	14,528,260.76	2,054,917.94	39° 59' 47.891 N	109° 31' 12.173 W
6,505.00	1.11	161.84	6,417.15	527.97	429.71	14,528,259.06	2,054,918.54	39° 59' 47.874 N	109° 31' 12.166 W
6,596.00	1.21	161.13	6,508.13	526.22	430.29	14,528,257.32	2,054,919.15	39° 59' 47.857 N	109° 31' 12.158 W
6,686.00	0.47	196.41	6,598.12	524.97	430.50	14,528,256.07	2,054,919.38	39° 59' 47.844 N	109° 31' 12.156 W
6,777.00	0.42	164.84	6,689.12	524.29	430.48	14,528,255.39	2,054,919.37	39° 59' 47.837 N	109° 31' 12.156 W
6,867.00	0.57	159.00	6,779.12	523.55	430.72	14,528,254.66	2,054,919.63	39° 59' 47.830 N	109° 31' 12.153 W
6,957.00	0.69	156.46	6,869.11	522.64	431.10	14,528,253.75	2,054,920.02	39° 59' 47.821 N	109° 31' 12.148 W
7,048.00	0.65	146.82	6,960.11	521.70	431.60	14,528,252.83	2,054,920.54	39° 59' 47.812 N	109° 31' 12.141 W
7,139.00	0.74	157.85	7,051.10	520.73	432.11	14,528,251.86	2,054,921.06	39° 59' 47.802 N	109° 31' 12.135 W
7,229.00	0.86	150.09	7,141.09	519.60	432.66	14,528,250.74	2,054,921.63	39° 59' 47.791 N	109° 31' 12.128 W
7,320.00	0.75	158.93	7,232.08	518.45	433.22	14,528,249.61	2,054,922.21	39° 59' 47.780 N	109° 31' 12.121 W
7,410.00	0.77	147.88	7,322.07	517.39	433.75	14,528,248.55	2,054,922.76	39° 59' 47.769 N	109° 31' 12.114 W
7,501.00	1.12	149.97	7,413.06	516.10	434.52	14,528,247.28	2,054,923.55	39° 59' 47.757 N	109° 31' 12.104 W
7,591.00	0.90	147.60	7,503.05	514.75	435.34	14,528,245.93	2,054,924.39	39° 59' 47.743 N	109° 31' 12.093 W
7,682.00	0.42	189.98	7,594.04	513.81	435.67	14,528,245.01	2,054,924.73	39° 59' 47.734 N	109° 31' 12.089 W
7,772.00	0.48	171.81	7,684.04	513.12	435.66	14,528,244.31	2,054,924.74	39° 59' 47.727 N	109° 31' 12.089 W
7,863.00	0.50	155.87	7,775.04	512.38	435.88	14,528,243.57	2,054,924.97	39° 59' 47.720 N	109° 31' 12.086 W
7,953.00	0.82	139.69	7,865.03	511.53	436.46	14,528,242.73	2,054,925.56	39° 59' 47.711 N	109° 31' 12.079 W
8,044.00	0.70	103.18	7,956.02	510.90	437.42	14,528,242.13	2,054,926.53	39° 59' 47.705 N	109° 31' 12.067 W
8,134.00	0.86	131.55	8,046.01	510.33	438.46	14,528,241.57	2,054,927.58	39° 59' 47.700 N	109° 31' 12.053 W
8,225.00	0.55	73.51	8,137.01	510.00	439.39	14,528,241.26	2,054,928.52	39° 59' 47.696 N	109° 31' 12.041 W
8,316.00	0.14	119.88	8,228.01	510.07	439.90	14,528,241.33	2,054,929.03	39° 59' 47.697 N	109° 31' 12.035 W
8,406.00	0.55	127.66	8,318.01	509.75	440.34	14,528,241.02	2,054,929.47	39° 59' 47.694 N	109° 31' 12.029 W
8,497.00	0.68	125.34	8,409.00	509.17	441.13	14,528,240.46	2,054,930.27	39° 59' 47.688 N	109° 31' 12.019 W
8,587.00	0.67	82.11	8,498.99	508.94	442.08	14,528,240.23	2,054,931.23	39° 59' 47.686 N	109° 31' 12.007 W
8,678.00	0.58	98.05	8,589.99	508.94	443.07	14,528,240.26	2,054,932.21	39° 59' 47.686 N	109° 31' 11.994 W
8,768.00	0.44	124.04	8,679.99	508.69	443.80	14,528,240.01	2,054,932.95	39° 59' 47.683 N	109° 31' 11.985 W
8,859.00	0.79	128.88	8,770.98	508.10	444.58	14,528,239.44	2,054,933.74	39° 59' 47.677 N	109° 31' 11.975 W
8,949.00	0.51	96.84	8,860.97	507.66	445.46	14,528,239.02	2,054,934.63	39° 59' 47.673 N	109° 31' 11.963 W
9,040.00	0.69	123.29	8,951.97	507.31	446.32	14,528,238.68	2,054,935.49	39° 59' 47.670 N	109° 31' 11.952 W
9,130.00	0.51	109.23	9,041.96	506.88	447.15	14,528,238.27	2,054,936.33	39° 59' 47.665 N	109° 31' 11.941 W
9,226.00	1.19	80.83	9,137.95	506.90	448.54	14,528,238.31	2,054,937.72	39° 59' 47.666 N	109° 31' 11.924 W
9,317.00	1.02	71.53	9,228.94	507.31	450.24	14,528,238.74	2,054,939.41	39° 59' 47.670 N	109° 31' 11.902 W
9,407.00	1.18	101.77	9,318.92	507.37	451.91	14,528,238.83	2,054,941.08	39° 59' 47.670 N	109° 31' 11.880 W
9,498.00	1.21	109.85	9,409.90	506.85	453.73	14,528,238.35	2,054,942.91	39° 59' 47.665 N	109° 31' 11.857 W
9,588.00	1.20	94.52	9,499.88	506.46	455.56	14,528,237.98	2,054,944.75	39° 59' 47.661 N	109° 31' 11.833 W
9,679.00	1.45	90.61	9,590.86	506.37	457.67	14,528,237.93	2,054,946.85	39° 59' 47.660 N	109° 31' 11.806 W
9,769.00	0.48	83.20	9,680.84	506.40	459.18	14,528,237.99	2,054,948.36	39° 59' 47.661 N	109° 31' 11.787 W
9,851.00	0.39	20.39	9,762.84	506.71	459.62	14,528,238.30	2,054,948.80	39° 59' 47.664 N	109° 31' 11.781 W
LAST SDI MWD PRODUCTION SURVEY									
9,905.00	0.39	20.39	9,816.84	507.05	459.75	14,528,238.64	2,054,948.92	39° 59' 47.667 N	109° 31' 11.780 W
SDI PROJECTION TO TD									

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
Site:	NBU 921-35F2 Pad	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
Well:	NBU 921-35C4CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-35F2 Pad
NBU 921-35C4CS

OH

Design: OH

Survey Report - Geographic

10 June, 2011

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSGN 139)
Site:	NBU 921-35F2 Pad	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSGN 139)
Well:	NBU 921-35C4CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-Roberts-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35F2 Pad, SEC 35 T9S R21E		
Site Position:		Northing:	14,527,718.98 usft
From:	Lat/Long	Easting:	2,054,478.12 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39° 59' 42.608 N
		Longitude:	109° 31' 17.940 W
		Grid Convergence:	0.95 °

Well	NBU 921-35C4CS, 1686' FNL 1699' FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,527,724.04 usft
	+E/-W	0.00 ft	Easting: 2,054,497.65 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	39° 59' 42.655 N
		Longitude:	109° 31' 17.688 W
		Ground Level:	5,105.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/05/2011	11.11	65.86	52,342

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	36.30	

Survey Program	Date 06/10/2011				
From	To	Survey (Wellbore)	Tool Name	Description	
10.00	2,605.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,703.00	9,905.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting	Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
10.00	0.00	0.00	10.00	0.00	0.00	14,527,724.04	2,054,497.65	39° 59' 42.655 N	109° 31' 17.688 W
163.00	0.79	3.38	163.00	1.05	0.06	14,527,725.09	2,054,497.69	39° 59' 42.666 N	109° 31' 17.687 W
FIRST SDI MWD SURFACE SURVEY									
250.00	0.62	19.20	249.99	2.10	0.25	14,527,726.14	2,054,497.87	39° 59' 42.676 N	109° 31' 17.685 W
334.00	1.58	357.14	333.97	3.68	0.34	14,527,727.72	2,054,497.93	39° 59' 42.692 N	109° 31' 17.684 W
424.00	3.08	6.72	423.90	7.32	0.57	14,527,731.37	2,054,498.09	39° 59' 42.728 N	109° 31' 17.681 W
514.00	4.40	19.20	513.70	12.98	1.98	14,527,737.05	2,054,499.42	39° 59' 42.784 N	109° 31' 17.663 W
604.00	5.19	24.56	603.39	19.95	4.81	14,527,744.06	2,054,502.13	39° 59' 42.852 N	109° 31' 17.626 W
694.00	5.28	22.36	693.01	27.48	8.08	14,527,751.65	2,054,505.27	39° 59' 42.927 N	109° 31' 17.584 W
784.00	5.89	30.45	782.59	35.29	11.99	14,527,759.52	2,054,509.05	39° 59' 43.004 N	109° 31' 17.534 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35F2 Pad
Well: NBU 921-35C4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35C4CS
TVD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
MD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
874.00	6.95	35.72	872.02	43.69	17.51	14,527,768.01	2,054,514.43	39° 59' 43.087 N	109° 31' 17.463 W
964.00	8.79	36.86	961.17	53.62	24.82	14,527,778.06	2,054,521.57	39° 59' 43.185 N	109° 31' 17.369 W
1,054.00	9.94	34.84	1,049.97	65.49	33.38	14,527,790.08	2,054,529.94	39° 59' 43.303 N	109° 31' 17.259 W
1,144.00	11.17	34.40	1,138.45	79.06	42.74	14,527,803.80	2,054,539.07	39° 59' 43.437 N	109° 31' 17.139 W
1,234.00	12.57	32.73	1,226.52	94.49	52.96	14,527,819.40	2,054,549.04	39° 59' 43.589 N	109° 31' 17.007 W
1,324.00	13.28	37.21	1,314.24	110.97	64.51	14,527,836.06	2,054,560.31	39° 59' 43.752 N	109° 31' 16.859 W
1,414.00	13.63	36.33	1,401.77	127.74	77.04	14,527,853.04	2,054,572.56	39° 59' 43.918 N	109° 31' 16.698 W
1,504.00	14.68	38.53	1,489.04	145.21	90.43	14,527,870.72	2,054,585.66	39° 59' 44.090 N	109° 31' 16.526 W
1,594.00	15.65	38.97	1,575.90	163.57	105.17	14,527,889.33	2,054,600.09	39° 59' 44.272 N	109° 31' 16.336 W
1,684.00	16.97	37.65	1,662.28	183.40	120.83	14,527,909.42	2,054,615.42	39° 59' 44.468 N	109° 31' 16.135 W
1,774.00	17.76	37.65	1,748.18	204.67	137.24	14,527,930.96	2,054,631.47	39° 59' 44.678 N	109° 31' 15.924 W
1,864.00	17.85	38.44	1,833.86	226.34	154.20	14,527,952.91	2,054,648.07	39° 59' 44.892 N	109° 31' 15.706 W
1,954.00	18.29	37.57	1,919.43	248.34	171.38	14,527,975.19	2,054,664.89	39° 59' 45.110 N	109° 31' 15.486 W
2,044.00	18.64	39.67	2,004.79	270.61	189.17	14,527,997.74	2,054,682.31	39° 59' 45.330 N	109° 31' 15.257 W
2,134.00	18.99	40.20	2,089.98	292.86	207.81	14,528,020.30	2,054,700.57	39° 59' 45.550 N	109° 31' 15.017 W
2,224.00	17.15	38.62	2,175.54	314.42	225.54	14,528,042.15	2,054,717.94	39° 59' 45.763 N	109° 31' 14.790 W
2,314.00	16.18	38.44	2,261.76	334.60	241.62	14,528,062.60	2,054,733.69	39° 59' 45.963 N	109° 31' 14.583 W
2,404.00	15.83	38.18	2,348.27	354.08	257.01	14,528,082.33	2,054,748.74	39° 59' 46.155 N	109° 31' 14.385 W
2,494.00	15.92	39.23	2,434.84	373.29	272.40	14,528,101.79	2,054,763.82	39° 59' 46.345 N	109° 31' 14.187 W
2,605.00	17.15	38.80	2,541.25	397.83	292.28	14,528,126.66	2,054,783.29	39° 59' 46.588 N	109° 31' 13.932 W
LAST SDI MWD SURFACE SURVEY									
2,703.00	15.28	36.78	2,635.35	419.44	309.07	14,528,148.54	2,054,799.72	39° 59' 46.801 N	109° 31' 13.716 W
FIRST SDI MWD PRODUCTION SURVEY									
2,793.00	15.34	41.16	2,722.15	437.90	324.01	14,528,167.25	2,054,814.34	39° 59' 46.984 N	109° 31' 13.524 W
2,884.00	14.17	40.59	2,810.15	455.42	339.18	14,528,185.02	2,054,829.22	39° 59' 47.157 N	109° 31' 13.329 W
2,974.00	13.95	39.90	2,897.46	472.11	353.30	14,528,201.94	2,054,843.07	39° 59' 47.322 N	109° 31' 13.148 W
3,065.00	12.55	38.32	2,986.03	488.28	366.47	14,528,218.33	2,054,855.97	39° 59' 47.482 N	109° 31' 12.978 W
3,155.00	11.46	38.25	3,074.06	502.98	378.07	14,528,233.21	2,054,867.32	39° 59' 47.627 N	109° 31' 12.829 W
3,246.00	11.11	36.87	3,163.30	517.09	388.92	14,528,247.51	2,054,877.94	39° 59' 47.766 N	109° 31' 12.690 W
3,336.00	10.28	39.22	3,251.74	530.25	399.21	14,528,260.83	2,054,888.00	39° 59' 47.896 N	109° 31' 12.558 W
3,427.00	9.68	38.03	3,341.36	542.57	409.05	14,528,273.31	2,054,897.64	39° 59' 48.018 N	109° 31' 12.431 W
3,517.00	7.25	38.95	3,430.37	552.94	417.29	14,528,283.83	2,054,905.70	39° 59' 48.121 N	109° 31' 12.325 W
3,608.00	5.13	49.13	3,520.84	560.07	423.97	14,528,291.06	2,054,912.27	39° 59' 48.191 N	109° 31' 12.239 W
3,699.00	2.77	47.91	3,611.62	564.21	428.68	14,528,295.28	2,054,916.91	39° 59' 48.232 N	109° 31' 12.179 W
3,789.00	1.41	74.35	3,701.56	565.97	431.36	14,528,297.08	2,054,919.56	39° 59' 48.249 N	109° 31' 12.144 W
3,880.00	0.95	125.23	3,792.54	565.83	433.06	14,528,296.97	2,054,921.26	39° 59' 48.248 N	109° 31' 12.123 W
3,970.00	0.90	127.87	3,882.53	564.97	434.22	14,528,296.13	2,054,922.44	39° 59' 48.240 N	109° 31' 12.108 W
4,061.00	1.15	142.52	3,973.52	563.80	435.34	14,528,294.98	2,054,923.58	39° 59' 48.228 N	109° 31' 12.093 W
4,151.00	1.31	147.73	4,063.49	562.22	436.44	14,528,293.42	2,054,924.70	39° 59' 48.212 N	109° 31' 12.079 W
4,242.00	1.31	150.14	4,154.47	560.44	437.52	14,528,291.65	2,054,925.81	39° 59' 48.195 N	109° 31' 12.065 W
4,332.00	0.96	160.93	4,244.45	558.83	438.27	14,528,290.06	2,054,926.59	39° 59' 48.179 N	109° 31' 12.056 W
4,423.00	1.10	164.88	4,335.44	557.27	438.75	14,528,288.50	2,054,927.09	39° 59' 48.163 N	109° 31' 12.049 W
4,513.00	0.67	218.21	4,425.43	556.02	438.65	14,528,287.26	2,054,927.02	39° 59' 48.151 N	109° 31' 12.051 W
4,604.00	0.90	215.10	4,516.42	555.02	437.91	14,528,286.24	2,054,926.29	39° 59' 48.141 N	109° 31' 12.060 W
4,694.00	0.78	199.74	4,606.41	553.86	437.30	14,528,285.08	2,054,925.70	39° 59' 48.130 N	109° 31' 12.068 W
4,785.00	0.93	178.43	4,697.40	552.54	437.11	14,528,283.75	2,054,925.53	39° 59' 48.117 N	109° 31' 12.071 W
4,875.00	1.14	174.83	4,787.39	550.92	437.21	14,528,282.13	2,054,925.66	39° 59' 48.101 N	109° 31' 12.069 W
4,966.00	1.32	225.99	4,878.37	549.29	436.54	14,528,280.49	2,054,925.01	39° 59' 48.085 N	109° 31' 12.078 W
5,056.00	1.37	225.71	4,968.34	547.82	435.02	14,528,278.99	2,054,923.52	39° 59' 48.070 N	109° 31' 12.097 W
5,147.00	1.20	225.60	5,059.32	546.39	433.56	14,528,277.54	2,054,922.09	39° 59' 48.056 N	109° 31' 12.116 W
5,237.00	1.18	222.60	5,149.30	545.05	432.26	14,528,276.18	2,054,920.81	39° 59' 48.043 N	109° 31' 12.133 W
5,328.00	1.12	224.79	5,240.28	543.73	431.00	14,528,274.84	2,054,919.57	39° 59' 48.030 N	109° 31' 12.149 W
5,418.00	0.93	208.74	5,330.27	542.46	430.03	14,528,273.56	2,054,918.62	39° 59' 48.017 N	109° 31' 12.162 W
5,509.00	0.88	201.24	5,421.26	541.17	429.42	14,528,272.25	2,054,918.03	39° 59' 48.004 N	109° 31' 12.169 W
5,600.00	0.81	193.76	5,512.25	539.89	429.02	14,528,270.97	2,054,917.65	39° 59' 47.992 N	109° 31' 12.175 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35F2 Pad
Well: NBU 921-35C4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35C4CS
TVD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
MD Reference: GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,690.00	0.66	219.78	5,602.24	538.87	428.53	14,528,269.94	2,054,917.18	39° 59' 47.982 N	109° 31' 12.181 W	
5,781.00	0.91	206.81	5,693.23	537.83	427.87	14,528,268.89	2,054,916.54	39° 59' 47.971 N	109° 31' 12.189 W	
5,871.00	0.79	190.60	5,783.22	536.58	427.43	14,528,267.63	2,054,916.12	39° 59' 47.959 N	109° 31' 12.195 W	
5,962.00	0.72	180.62	5,874.21	535.39	427.31	14,528,266.44	2,054,916.02	39° 59' 47.947 N	109° 31' 12.196 W	
6,052.00	0.59	173.80	5,964.21	534.36	427.36	14,528,265.41	2,054,916.08	39° 59' 47.937 N	109° 31' 12.196 W	
6,143.00	0.59	149.89	6,055.20	533.49	427.64	14,528,264.55	2,054,916.38	39° 59' 47.928 N	109° 31' 12.192 W	
6,233.00	0.86	161.97	6,145.20	532.45	428.08	14,528,263.51	2,054,916.84	39° 59' 47.918 N	109° 31' 12.187 W	
6,324.00	0.87	156.62	6,236.18	531.17	428.57	14,528,262.24	2,054,917.35	39° 59' 47.905 N	109° 31' 12.180 W	
6,414.00	1.16	161.14	6,326.17	529.68	429.14	14,528,260.76	2,054,917.94	39° 59' 47.891 N	109° 31' 12.173 W	
6,505.00	1.11	161.84	6,417.15	527.97	429.71	14,528,259.06	2,054,918.54	39° 59' 47.874 N	109° 31' 12.166 W	
6,596.00	1.21	161.13	6,508.13	526.22	430.29	14,528,257.32	2,054,919.15	39° 59' 47.857 N	109° 31' 12.158 W	
6,686.00	0.47	196.41	6,598.12	524.97	430.50	14,528,256.07	2,054,919.38	39° 59' 47.844 N	109° 31' 12.156 W	
6,777.00	0.42	164.84	6,689.12	524.29	430.48	14,528,255.39	2,054,919.37	39° 59' 47.837 N	109° 31' 12.156 W	
6,867.00	0.57	159.00	6,779.12	523.55	430.72	14,528,254.66	2,054,919.63	39° 59' 47.830 N	109° 31' 12.153 W	
6,957.00	0.69	156.46	6,869.11	522.64	431.10	14,528,253.75	2,054,920.02	39° 59' 47.821 N	109° 31' 12.148 W	
7,048.00	0.65	146.82	6,960.11	521.70	431.60	14,528,252.83	2,054,920.54	39° 59' 47.812 N	109° 31' 12.141 W	
7,139.00	0.74	157.85	7,051.10	520.73	432.11	14,528,251.86	2,054,921.06	39° 59' 47.802 N	109° 31' 12.135 W	
7,229.00	0.86	150.09	7,141.09	519.60	432.66	14,528,250.74	2,054,921.63	39° 59' 47.791 N	109° 31' 12.128 W	
7,320.00	0.75	158.93	7,232.08	518.45	433.22	14,528,249.61	2,054,922.21	39° 59' 47.780 N	109° 31' 12.121 W	
7,410.00	0.77	147.88	7,322.07	517.39	433.75	14,528,248.55	2,054,922.76	39° 59' 47.769 N	109° 31' 12.114 W	
7,501.00	1.12	149.97	7,413.06	516.10	434.52	14,528,247.28	2,054,923.55	39° 59' 47.757 N	109° 31' 12.104 W	
7,591.00	0.90	147.60	7,503.05	514.75	435.34	14,528,245.93	2,054,924.39	39° 59' 47.743 N	109° 31' 12.093 W	
7,682.00	0.42	189.98	7,594.04	513.81	435.67	14,528,245.01	2,054,924.73	39° 59' 47.734 N	109° 31' 12.089 W	
7,772.00	0.48	171.81	7,684.04	513.12	435.66	14,528,244.31	2,054,924.74	39° 59' 47.727 N	109° 31' 12.089 W	
7,863.00	0.50	155.87	7,775.04	512.38	435.88	14,528,243.57	2,054,924.97	39° 59' 47.720 N	109° 31' 12.086 W	
7,953.00	0.82	139.69	7,865.03	511.53	436.46	14,528,242.73	2,054,925.56	39° 59' 47.711 N	109° 31' 12.079 W	
8,044.00	0.70	103.18	7,956.02	510.90	437.42	14,528,242.13	2,054,926.53	39° 59' 47.705 N	109° 31' 12.067 W	
8,134.00	0.86	131.55	8,046.01	510.33	438.46	14,528,241.57	2,054,927.58	39° 59' 47.700 N	109° 31' 12.053 W	
8,225.00	0.55	73.51	8,137.01	510.00	439.39	14,528,241.26	2,054,928.52	39° 59' 47.696 N	109° 31' 12.041 W	
8,316.00	0.14	119.88	8,228.01	510.07	439.90	14,528,241.33	2,054,929.03	39° 59' 47.697 N	109° 31' 12.035 W	
8,406.00	0.55	127.66	8,318.01	509.75	440.34	14,528,241.02	2,054,929.47	39° 59' 47.694 N	109° 31' 12.029 W	
8,497.00	0.68	125.34	8,409.00	509.17	441.13	14,528,240.46	2,054,930.27	39° 59' 47.688 N	109° 31' 12.019 W	
8,587.00	0.67	82.11	8,498.99	508.94	442.08	14,528,240.23	2,054,931.23	39° 59' 47.686 N	109° 31' 12.007 W	
8,678.00	0.58	98.05	8,589.99	508.94	443.07	14,528,240.26	2,054,932.21	39° 59' 47.686 N	109° 31' 11.994 W	
8,768.00	0.44	124.04	8,679.99	508.69	443.80	14,528,240.01	2,054,932.95	39° 59' 47.683 N	109° 31' 11.985 W	
8,859.00	0.79	128.88	8,770.98	508.10	444.58	14,528,239.44	2,054,933.74	39° 59' 47.677 N	109° 31' 11.975 W	
8,949.00	0.51	96.84	8,860.97	507.66	445.46	14,528,239.02	2,054,934.63	39° 59' 47.673 N	109° 31' 11.963 W	
9,040.00	0.69	123.29	8,951.97	507.31	446.32	14,528,238.68	2,054,935.49	39° 59' 47.670 N	109° 31' 11.952 W	
9,130.00	0.51	109.23	9,041.96	506.88	447.15	14,528,238.27	2,054,936.33	39° 59' 47.665 N	109° 31' 11.941 W	
9,226.00	1.19	80.83	9,137.95	506.90	448.54	14,528,238.31	2,054,937.72	39° 59' 47.666 N	109° 31' 11.924 W	
9,317.00	1.02	71.53	9,228.94	507.31	450.24	14,528,238.74	2,054,939.41	39° 59' 47.670 N	109° 31' 11.902 W	
9,407.00	1.18	101.77	9,318.92	507.37	451.91	14,528,238.83	2,054,941.08	39° 59' 47.670 N	109° 31' 11.880 W	
9,498.00	1.21	109.85	9,409.90	506.85	453.73	14,528,238.35	2,054,942.91	39° 59' 47.665 N	109° 31' 11.857 W	
9,588.00	1.20	94.52	9,499.88	506.46	455.56	14,528,237.98	2,054,944.75	39° 59' 47.661 N	109° 31' 11.833 W	
9,679.00	1.45	90.61	9,590.86	506.37	457.67	14,528,237.93	2,054,946.85	39° 59' 47.660 N	109° 31' 11.806 W	
9,769.00	0.48	83.20	9,680.84	506.40	459.18	14,528,237.99	2,054,948.36	39° 59' 47.661 N	109° 31' 11.787 W	
9,851.00	0.39	20.39	9,762.84	506.71	459.62	14,528,238.30	2,054,948.80	39° 59' 47.664 N	109° 31' 11.781 W	
LAST SDI MWD PRODUCTION SURVEY										
9,905.00	0.39	20.39	9,816.84	507.05	459.75	14,528,238.64	2,054,948.92	39° 59' 47.667 N	109° 31' 11.780 W	
SDI PROJECTION TO TD										

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35C4CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
Site:	NBU 921-35F2 Pad	MD Reference:	GL 5105' & KB 14' @ 5119.00ft (ENSIGN 139)
Well:	NBU 921-35C4CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,851.00	9,762.84	506.71	459.82	LAST SDI MWD PRODUCTION SURVEY
9,905.00	9,816.84	507.05	459.75	SDI PROJECTION TO TD

Checked By: _____	Approved By: _____	Date: _____
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